



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000130972 PURCHASE OF REFLECTIVE STOP SIGN SHEETING FOR
THE DEPARTMENT OF TRAFFIC ENGINEERING**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com

26-May-2020 07:31:41 AM



BID 50-130972
PURCHASE OF REFLECTIVE STOP SIGN SHEETING FOR
THE DEPARTMENT OF TRAFFIC ENGINEERING

May 29, 2020 @ 11:00 A.M.

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.

Jefferson Parish Purchasing Department
200 Derbigny Street, Suite 4400
Gretna, LA 70053
Please Email Any Questions To:
Mark BATTERY
MBATTERY@JEFFPARISH.NET
504-364-2810

DATE: 5/21/2020

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

BID NO.: 50-00130972

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

VENDOR: *Osburn Associates, Inc.*

BUYER: MBUTTERY@jeffparish.net

Bids will be received until 11:00 AM, 5/29/2020 via online at www.jeffparishbids.net or by hand delivery, USPS mail or other courier service to Purchasing Department, 200 Derbigny Street (General Government Building), Suite 4400, Gretna, LA 70053. For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only.

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law, as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647. A copy of these resolutions may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at purchasing.jeffparish.net and clicking on On-line forms.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Vendors may experience a delay in payment if your company is not a registered vendor with Jefferson Parish.

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Delivered, anywhere within the Parish as designated by the Purchasing Department. **JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR.** Items bid must meet specifications. **JEFFERSON PARISH** will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of **JEFFERSON PARISH**. Every contract or order shall be awarded to the **LOWEST RESPONSIVE** and **RESPONSIBLE BIDDER**, taking into consideration the **CONFORMITY WITH THE SPECIFICATIONS** and the **DELIVERY AND/OR COMPLETION DATE**

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in the quotation. The order must not be filled at a higher price than quoted. **JEFFERSON PARISH** reserves the right to cancel at any time and for any reason by issuing a **THIRTY (30)** day written notice to the contractor.

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum.

All formal Addenda require written acknowledgment on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected; **JEFFERSON PARISH** reserves the right to award bid to next lowest responsive and responsible bidder in this event.

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A1 17.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

13

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Failure to comply with this instruction will result in bid rejection.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required;** This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. **NON-PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required** in conformity with the provisions contained in LSA - RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to JPCO 2-155.10(19). By signing this document, every corporation, partnership, or person contracting with PARISH, whether by cooperative endeavor, intergovernmental agreement, bid, proposal, application or solicitation for a parish contract, and every application for certification of eligibility for a parish contract or program, attests that it understands and will abide by all provisions of JPCO 2-155.10.

DATE: 5/21/2020

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 4

BID NO.: 50-00130972

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETN, LA. 70054-0009
504-364-2678

VENDOR: *Osburn Associates, Inc.*

BUYER: MBUTTERY

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

30 Days

INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK

-

INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK

-

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: _____

NUMBER: _____

NUMBER: _____

NUMBER: _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

***** ALL BIDDERS MUST COMPLETE SECTION BELOW *****

FIRM NAME:

Osburn Associates, Inc.

SIGNATURE:

(Must be signed here)

TITLE:

Bidding Agent

PRINT OR TYPE NAME:

Jennifer Treadway

ADDRESS:

11931 SR 93 N.

CITY, STATE:

Logan, OH 43138

ZIP:

43138

TELEPHONE:

(800) 523-8917

FAX:

(740) 385-8016

EMAIL ADDRESS:

jennifert@osburns.com

TOTAL PRICE OF ALL BID ITEMS: \$ *9,530.00*

DATE: 5/21/2020

Page: 5

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00130972

SEALED BID

| ITEM NUMBER | QUANTITY | U/M | DESCRIPTION OF ARTICLES | UNIT PRICE QUOTED | TOTALS |
|----------------|----------|-----|--|----------------------|------------|
| 1 | 500.00 | EA | <p>PURCHASE OF REFLECTIVE SHEETING FOR THE DEPARTMENT OF TRAFFIC ENGINEERING</p> <p>0010 REFLECTIVE STOP SIGN (R1-1) FACE, 30 X 30, RADIUS NOT APPLICABLE, TYPE XI, REVERSE RED ON WHITE W/ GRAFFITI OVERLAY</p> <p>ITEM # FED R1-1-30 XI-FACE</p> <p>AVERY T11500 SHEETING W/ OL-1000 SEE ATTACHED SPECS</p> <p>CARL HOLMES</p> | # 19.00 | # 9,530.00 |

**Department of Engineering
Traffic Engineering Division**

Quantity of 500

Reflective Stop Sign (R1-1) Face

30 x 30, radius not applicable, Type XI

Reverse Red on White w/ Graffiti overlay

**Avery T11500 Sheeting w/ OL-1000 or
3M Diamond Grade Sheeting**

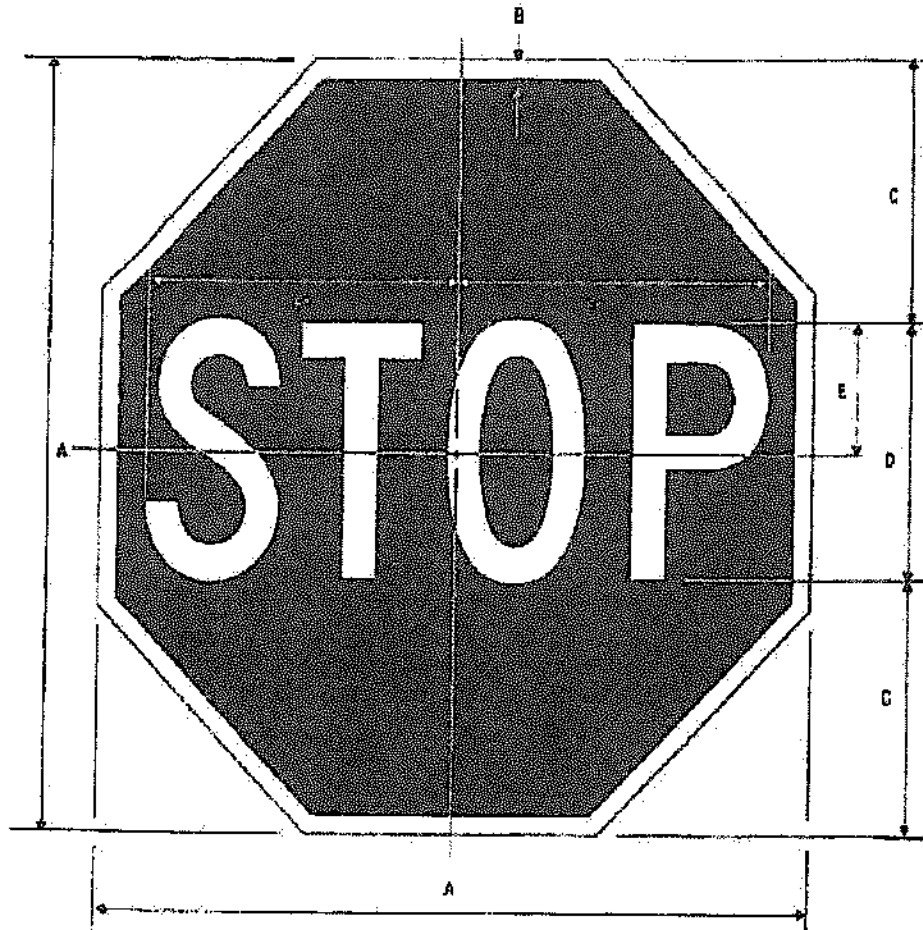
To be delivered to:

Traffic Engineering

2100 Dickory Ave.

Harahan, LA 70123

Attn: Carl Holmes



R1-1
STOP

*Reduce spacing 40%

| A | B | C | D | E | F |
|----|------|----|------|---|------|
| 18 | .375 | 6 | 6 C | 3 | 7.75 |
| 24 | .625 | 8 | 8 C | 4 | 10 |
| 30 | .75 | 10 | 10 C | 5 | 12.5 |
| 36 | .875 | 12 | 12 C | 6 | 15 |
| 48 | 1.25 | 16 | 16 C | 8 | 20 |

COLORS: LEGEND - WHITE (RETROREFLECTIVE)
BACKGROUND - RED (RETROREFLECTIVE)

Avery Dennison® OmniCube™ T-11000 & W-11000 Series Full Cube Microprismatic Retroreflective Film

Issued: February 2017

Avery Dennison® OmniCube™ T-11000 & W-11000 Series High Intensity Microprismatic Retroreflective Film takes full-cube reflective sheeting to a new level. OmniCube full-cube prisms are 100% efficient – returning approximately 60% of the available light back to the driver compared to only 40% with other prismatic reflective sheetings.

OmniCube's Intelligent Cube Technology incorporates the needs of all vehicle types; trucks, SUVs, automobiles, and motorcycles into one reflective sheeting.

OmniCube T-11000& W-11000 is an Omni-Directional microprismatic film that incorporates tiles of full-cube microprisms arranged in multiple orientations. This feature – "Smart at Every Angle" benefits agencies by providing confidence that all signs will perform with uniform visual reflectivity at all sign face orientations.

Features:

- Omni-Directional
- Designed for all drivers in trucks, SUVs, automobiles, and motorcycles
- Field proven long term durability on safety devices worldwide
- Uniform daytime and nighttime visual appearance

Conversion:

- ☒ Screen Printing
- ☒ Eco Solvent Inkjet Printing
- ☒ Thermal Die-Cut
- ☒ Flat Bed Sign-Cut
- ☒ Drum Roller Sign-Cut
- ☒ Steel Rule Sign-Cut

Applications:

- ☒ Rigid Permanent and Temporary Outdoor Signage
- ☒ Rigid Work Zone Devices
- ☒ Safety Devices that require Superior Retroreflective Performance

Product Data Sheet
Page 1 of 7
Reflective Solutions
7542 North Natchez Ave.
Niles, IL 60714



Performance:
ASTM D4956 Type XI
See Page 2 for complete list.



Orientation: Omni-Directional



Durability: 12 year
Vertical exposure only.



Face: High-Gloss Acrylic
Retroreflective Film with
Microprisms



Adhesive: Permanent
Pressure Sensitive



Liner: Polypropylene Film



Printable with:
TrafficJet™ Print System

Product Availability*:

| Traffic Products | | |
|----------------------|--|----------|
| T-11500 | White | |
| T-11501 | Yellow | |
| T-11505 | Blue | |
| T-11507 | Green | |
| T-11508 | Red | |
| T-11509 | Brown | |
| T-11511 | Fluorescent Yellow | |
| T-11513 | Fluorescent Yellow-Green | |
| Work Zone Products** | | |
| W-11114 | Fluorescent Yellow | |
| W-11514 | Fluorescent Orange | |
| W-11142 | Orange Pre-Striped Barricade | 4" Left |
| W-11143 | | 4" Right |
| W-11144 | | 6" Left |
| W-11145 | | 6" Right |

*See Page 5 for Nomenclature

**3 Year Durability



www.reflectives.averydennison.com

Avery Dennison® OmniCube™ T-11000 & W-11000 Series

Full Cube Microprismatic Retroreflective Film

Issued: February 2017

Retroreflectivity:

Table A:
Min. coefficients of retroreflection (R_A)¹ per ASTM D4956² Type XI

| Observation Angle | Color | Entrance Angle | |
|-------------------|--------------------------|----------------|-------|
| | | - 4° | + 30° |
| 0.1° ³ | White | 530 | 325 |
| | Yellow | 620 | 245 |
| | Blue | 37 | 15 |
| | Green | 83 | 33 |
| | Red | 125 | 50 |
| | Brown | 25 | 10 |
| | Fluorescent Yellow | 500 | 200 |
| | Fluorescent Yellow-Green | 660 | 260 |
| | Fluorescent Orange | 250 | 100 |
| 0.2° | White | 580 | 220 |
| | Yellow | 435 | 165 |
| | Blue | 26 | 10 |
| | Green | 58 | 22 |
| | Red | 87 | 33 |
| | Brown | 17 | 7 |
| | Fluorescent Yellow | 350 | 130 |
| | Fluorescent Yellow-Green | 460 | 180 |
| | Fluorescent Orange | 175 | 66 |
| 0.5° | White | 420 | 150 |
| | Yellow | 315 | 110 |
| | Blue | 19 | 7.0 |
| | Green | 42 | 15 |
| | Red | 63 | 23 |
| | Brown | 13 | 5 |
| | Fluorescent Yellow | 250 | 90 |
| | Fluorescent Yellow-Green | 340 | 120 |
| | Fluorescent Orange | 125 | 45 |
| 1.0° | White | 120 | 45 |
| | Yellow | 90 | 34 |
| | Blue | 5.0 | 2.0 |
| | Green | 12 | 5.0 |
| | Red | 18 | 7.0 |
| | Brown | 4 | 1 |
| | Fluorescent Yellow | 72 | 27 |
| | Fluorescent Yellow-Green | 96 | 36 |
| | Fluorescent Orange | 36 | 14 |

OmniCube Series exceeds all values listed in Table A and Table B.

OmniCube Series also exceeds the current applicable requirements for the following specifications:

| | |
|----------------|--------------------------|
| ASTM D4956 | International |
| AASHTO M268 | USA |
| CUAP | EU |
| GB/T 18833 | China |
| N-CMT-5-03-001 | Mexico |
| UNE 135340 | Spain |
| NF XP98520 | France |
| BSI 8408 | UK |
| UNI 11122 | Italy |
| JIS Z9117 | Japan |
| SANS 1519-1 | South Africa |
| AS/NZS 1906.1 | Australia New Zealand |
| ABNT NBR 14644 | Brazil |
| IRAM 3952 | Argentina |

Avery Dennison suggests you obtain the current requirements from your local agency and ensure product conformance with such requirements. Your Avery Dennison Representative can assist you in this regard.

¹ R_A =
candelas per foot-candle per
square foot(cd/ft²) OR
Candelas per lux per square meter
(cd/lx/m²)

² Measured according to ASTM E810

³Note that 0.1° Observation angle is a "supplemental Requirement" in ASTM D4956. It represents long highway viewing distances of about 900 ft (275 Meters) and greater.

Avery Dennison® OmniCube™ T-11000 & W-11000 Series

Full Cube Microprismatic Retroreflective Film

Issued: February 2017

Colors and Specification Limits:

Figure A: Daytime Color – CIE Color Diagram

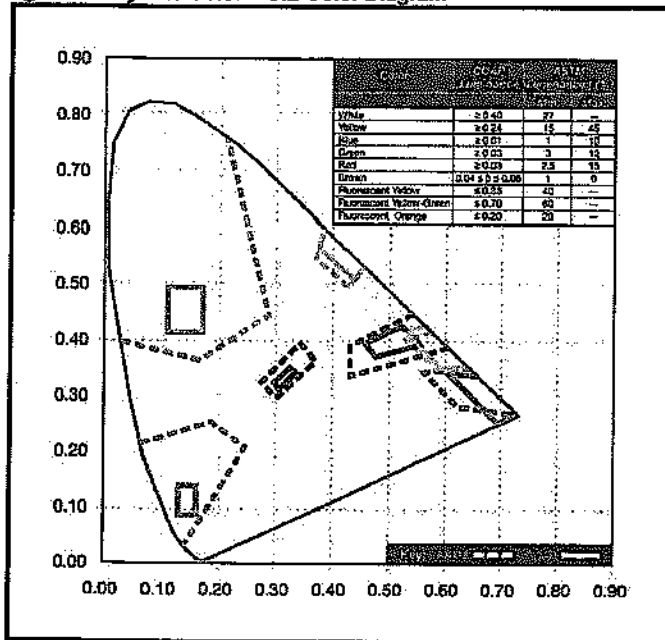
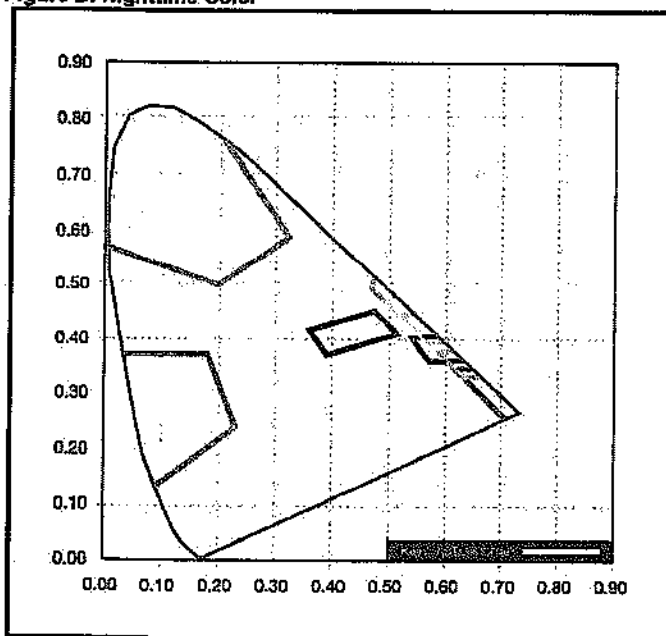


Figure B: Nighttime Color



OmniCube Series meets the current applicable daytime and nighttime color requirements for ASTM D4956 and CUAP as well as standards listed on Page 2.

Chromaticity Coordinate Limits

Figures A & B show the four pairs of chromaticity coordinates from ASTM D4956 and CUAP on the color grid.

Daytime Color

The four pairs of chromaticity coordinates in Figure A determine the acceptable color in terms of the CIE 1931 Standard Colorimetric System measured with Standard Illuminant D65 and CIE Publication no. 15 using CIE Standard Illuminant D65 and CIE 45/0 geometry. Luminance factor shall comply with table in Figure A.

Note: The saturation limit of green and blue may extend to the border of the CIE chromaticity locus for spectral colors

Nighttime Color

The four pairs of chromaticity coordinates in Figure B determine the acceptable color measured using CIE Illuminant A, observation angle of 0.33 degrees, entrance angle of +5 degrees, source and receiver apertures not to exceed 10 minutes of arc, and CIE 1930 (2 degree) standard observer per ASTM D4956.

Avery Dennison® OmniCube™ T-11000 & W-11000 Series

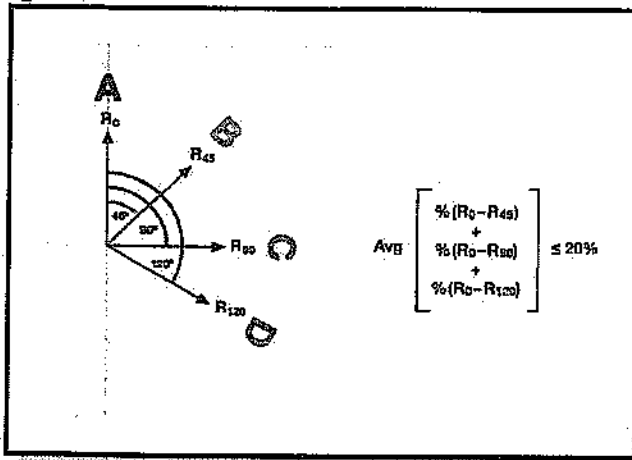
Full Cube Microprismatic Retroreflective Film

Issued: February 2017

Sheeting Orientation:

The American Association of State Highway Transportation Officials (AASHTO) has recognized that some retroreflective films are rotationally (orientation) sensitive. Because this impacts sign luminance, AASHTO has defined a specification to measure orientation performance. **Figure C** shows how the orientation sensitivity is measured. In order for a film to be considered rotationally insensitive, the average percent difference (shown in **Figure C**) must be less than or equal to 20%.

Figure C



When measured for orientation sensitivity as described in AASHTO M 268-10, all Avery Dennison sheeting, both beaded and prismatic, **pass** the specification as **rotationally insensitive**. Therefore, no special identification marks or other features (such as a datum mark, or distinctive seal pattern) are required to denote optimum orientation for sheeting. Because the user can expect visual uniformity regardless of orientation, no costly and cumbersome fabrication techniques are required to orient sheets, cut sign legend or border tape during sign fabrication.

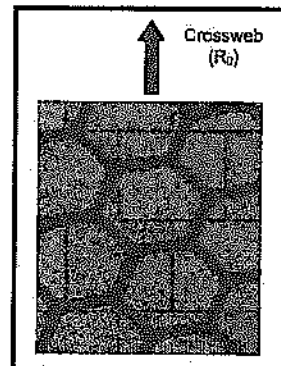
Specifying agencies and sign fabricators are cautioned that some retroreflective sheetings, even of the same ASTM "Type" may not provide consistent luminance for desired night visibility if the sheeting is not applied in the optimal, or in uniform orientation. Agencies and fabricators should be aware of this concern and discuss the potential effects of rotation on luminance of specific sheetings with their material supplier before beginning installation and/or fabrication.

OmniCube Series is Omni-Directional and **passes** the AASHTO specification as being **rotationally insensitive**.

Retroreflectivity R_A values taken per ASTM E810
0.5° Observation angle and
-4° or 5° Entrance angle

As a datum for laboratory measurements R_0 is identified in the crossweb direction. See **Figure D**.

Figure D



Watermark: OmniCube contains the watermark seen in **Figure E**.

Figure E



Avery Dennison® OmniCube™ T-11000 & W-11000 Series

Full Cube Microprismatic Retroreflective Film

Issued: February 2017

Nomenclature:

T-11 5 0 0

| | | | | |
|--|----|---|---|---|
| T | 11 | 5 | 0 | 0 |
| Initial Letter(s): Application/Durability | | | | |
| 1 st Number: Series | | | | |
| 2 nd Number: Adhesive | | | | |
| 3 rd & 4 th Numbers: Color | | | | |

| Initial Letter | Application | Durability* |
|----------------|----------------------------|-------------|
| T** | Traffic/Permanent Sheeting | 12 year |
| W | Work Zone Sheeting | 3 year |
| WR | Work Zone Reboundable | 3 year |

* See your local representative for complete details.

**Fluorescent Yellow & Fluorescent Yellow-Green durability is 10 year

| | |
|--------|-------|
| Series | 11000 |
|--------|-------|

| 2 nd Number | Substrate |
|------------------------|--|
| 1 | Pressure Sensitive for Plastic Substrates |
| 2 | Pressure Sensitive for Wood Substrates |
| 5 | Pressure Sensitive for Aluminum Substrates |

| 3 rd & 4 th Numbers | Color |
|---|---------------------------------------|
| 00 | White |
| 01 | Yellow |
| 04 | Orange |
| 05 | Blue |
| 07 | Green |
| 08 | Red |
| 09 | Brown |
| 11 | Fluorescent Yellow |
| 13 | Fluorescent Yellow-Green |
| 14 | Fluorescent Orange |
| 42 | 4" LEFT Orange Pre-Striped Barricade |
| 43 | 4" RIGHT Orange Pre-Striped Barricade |
| 44 | 6" LEFT Orange Pre-Striped Barricade |
| 45 | 6" RIGHT Orange Pre-Striped Barricade |

OmniCube is the exception and leads with the number 11

The following Warranty is limited to North America.

WARRANTY

Avery Dennison OmniCube™ T-11000 & W-11000 microprismatic reflective sheeting ("Product(s)") are warranted to be free from defects in material and workmanship for one (1) year from date of purchase, (or the period stated on the specific product information literature in effect at time of delivery, if longer). It is expressly agreed and understood that Avery Dennison's sole obligation and Purchaser's exclusive remedy under this warranty, under any other warranty, express or implied, or otherwise, shall be limited to repair or replacement of defective Product without charge at Avery Dennison's plant or at the location of Product (at Avery Dennison's election), or in the event replacement or repairs is not commercially practical, to Avery Dennison's issuing Purchaser a credit reasonable in light of the defect in the Product.

Avery Dennison further warrants that Avery Dennison OmniCube T-11000 & W-11000 Microprismatic reflective sheeting will retain its effectiveness as a component of traffic control and guidance signs, and will meet the stated minimum values for coefficient of retroreflection ("Performance Warranty") as set forth in accordance with the following standards:

| Warranty Period* | Minimum Percentage R _s Retained |
|------------------|--|
| 1-7 years | 80% |
| 8-12 years | 70% |

*Performance Warranty Period for Work Zone products is one to three (1-3) years

**Performance Warranty Period for Fluorescent Yellow and Fluorescent Yellow-Green is ten (10) years

Note: For transparent color screen printed areas using Avery Dennison supplied or approved inks or UL-2000 Overlay films on Avery Dennison T-11500 white sheeting, values shall be a minimum of 70% of values in Table A.

Representative retained above apply to all entrance and observation angles in Table A, and shall be measured per ASTM E 810.

All measurements shall be made after cleaning according to Avery Dennison procedures.

PERFORMANCE WARRANTY

If within twelve (12) years from the initial date of installation, the Product deteriorates due to natural causes to the extent that 1) the Product fails to retain the minimum reflectivity values warranted for the twelve (12) year period under the standard in force at the time of installation, or 2) the Product is ineffective for its intended purpose when viewed from a moving vehicle under normal daytime or nighttime driving conditions, Avery Dennison will furnish a replacement amount of like Product at no cost to enable the installed surface to be restored to its original effectiveness. If within seven (7) years of installation such deterioration occurs or the Product fails to retain the minimum seven (7) year reflectivity values, Avery Dennison will restore the installation surface to its original effectiveness at no cost for materials or labor.

CONDITIONS

This warranty shall be effective only if all of the following conditions are met:

Fabrication and/or installation must occur within one (1) year from the date of purchase.

The failure must have resulted solely from a manufacturing defect or deterioration of the Product due to natural causes under the Performance Warranty. Without limiting the generality of the foregoing, there is no warranty for the failure of the sheeting due to improper sign fabrication, storage, handling, installation, maintenance, failure of the sign substrate, vandalism or mischief. Slight color fading, cracking, chalking, edge lifting, or slight reduction in gloss or reflectivity will not materially detract from appearance and does not constitute a breach of warranty.

Avery Dennison has published instructional bulletins pertaining to the storage, handling, and cleaning of Product, approved substrates, and application procedures (collectively, the "Procedures"). The Product must have been processed and applied to blank, clean material in accordance with the Procedures, as such may be amended from time to time. Avery Dennison reserves the right to reject any warranty claim where the fabricator or installer cannot satisfactorily prove or demonstrate that the Avery Dennison procedures were utilized. This date of installation, warranty registration, and claim procedures established by Avery Dennison must be followed, and failure to follow such procedures shall void this warranty. Replacement Product carries only the unexpired warranty portion of the Product it replaces. The Product must be properly stored and applied within the shelf-life as stated in the applicable Avery Dennison Product Data Sheet including adhesive and other material product data.

Product Data Sheet

Page 5 of 7

Reflective Solutions

7542 North Natchez Ave.

Niles, IL 60714



www.reflectives.averydennison.com

Avery Dennison® OmniCube™ T-11000 & W-11000 Series

Full Cube Microprismatic Retroreflective Film

Issued: February 2017

Characteristics:

| Property | Value | Instructional Bulletins |
|------------------------------|---|-----------------------------|
| Shelf-Life | 1 year from date of purchase when stored at the following conditions: 65°-75°F (18°-24°C) and 50% ± 5% R.H. | #8.00 |
| Typical film Caliper | 16 – 20 mils (406 – 508µm) | NA |
| Min. Application Temperature | 50° F (10° C) | #8.10 |
| Service Temperature | -10°F to +150°F (-23°C to + 65°C) | #8.00 |
| Screen Printing | Long term durability of screen printing in combination with OmniCube Series is warranted when used with approved inks and overlays. See Page 7. | #8.30 #8.55 |
| Eco Solvent Inkjet Printing | Long term durability of inkjet printing in combination with OmniCube Series is warranted when used with approved inks and printer systems. See Page 7. | TrafficJet™ Print System |
| Thermal Transfer Printing | Long term durability of thermal transfer printing in combination with OmniCube Series is warranted when used with approved ribbons and printer systems. See Page 7. | #8.60 |

ADDITIONAL LIMITATIONS

Unintended Use: This warranty only applies to Product that is used by professional converters and installers for the defined end uses and in the combinations described in the applicable Avery Dennison Product Data Sheets and Instructional Bulletins. For any other use, the user is responsible for determining the suitability of the Product, and for any and all risk or liability associated with that use or application, and the user agrees to indemnify, defend and hold harmless Avery Dennison for any claims, losses, damages, judgments, expenses and/or expenses, including attorneys fees, resulting from such use or application. This warranty is expressly conditioned on the Product being processed by professional converters or installers in accordance with the Avery Dennison recommended install processing instructions, and being applied to properly prepared surfaces and cleaned and maintained in accordance with recommended Avery Dennison procedures. It is the converters, installers or other users responsibility to perform incoming raw material quality inspections, to ensure proper surface preparation and that approved application procedures are followed, to retain converted samples, and to immediately cease using and notify Avery Dennison and/or its authorized agent or distributor of any Product, Materials and/or finished Product discovered to be (or reasonably capable of being discovered to be) defective.

Misuse and Force Majeure: Avery Dennison has no obligations or liability under this warranty with respect to Product that has been altered, modified, damaged, misused, abused, subject to accident, neglected or otherwise mishandled or improperly processed or installed. Product is not warranted against premature failure caused by chemical, environmental or mechanical means such as, but not limited to, vandalism, cleaning solutions, paints, solvents, moisture, temperatures, mechanical washing equipment, engine fuel spills, engine exhaust, steam, organic solvents or other spilled chemicals pollutants, including industrial and volcanic ash. Damage from fire, structural failure, lightning, accidents, and other force majeure events are not covered by this warranty.

Third Party Product: Avery Dennison assumes no responsibility for any injury, loss or damage arising out of the use of a product that is not of our manufacture. Where installer or converter uses or reference is made to a commercially available product, made by another manufacturer, it shall be the responsibility of the user, installer or converter to ascertain the precautionary measures for its use outlined by the manufacturer.

The remedies provided under this warranty are exclusive. In no event shall Avery Dennison be responsible for any direct, indirect, incidental or consequential damages or specific relief whether foreseeable or not, caused by defects in such Product, whether such damage occurs or is discovered before or after replacement or credit, and whether or not such damage is caused by Avery Dennison's negligence. In no event shall Avery Dennison's liability hereunder exceed the remedies specifically set forth in this warranty. Avery Dennison's liability shall be limited, at Avery Dennison's option, to the purchase price, replacement of the defective Product and in some cases when authorized by Avery Dennison the repair and replacement of the defective Product.

THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHERS. ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED. NO WAIVER, ALTERATION, ADDITION OR MODIFICATION OF THE FOREGOING CONDITIONS SHALL BE VALID UNLESS MADE IN WRITING AND MANUALLY SIGNED BY AN OFFICER OF AVERY DENNISON.

Avery Dennison® OmniCube™ T-11000 & W-11000 Series

Full Cube Microprismatic Retroreflective Film

Issued: February 2017

Converting Information:

The following Avery Dennison literature will provide information to the user for proper application, storage, and other requirements.

Find the latest information on the Avery Dennison website.

www.reflectives.averydennison.com. We encourage you to check our website periodically for updates.

Approved Screen Printing Inks, Overlays, and Printing Systems:

| Supplier | Series | System | Instructional Bulletins |
|----------------|-------------------------------|------------------------|-----------------------------|
| Avery Dennison | 4930 Inks | 1 Part Solvent | #8.40 |
| Avery Dennison | UVTS® Nazdar | UV | #8.38 |
| Avery Dennison | OL-2000 | Acrylic Overlay | #8.01, #8.10, #8.25 |
| Avery Dennison | OL-1000 | Anti-Graffiti | #8.01, #8.10 |
| Matan | DTS | Thermal Transfer* | #8.60 |
| Avery Dennison | TrafficJet™ 1638 - 8 Color | Eco Solvent Inkjet* | TrafficJet™ Print System |

* See Instructional Bulletin for overlay requirements

Instructional Bulletins:

| | |
|---------------------------------------|-------|
| Film Care & Handling | #8.00 |
| Substrate Requirements | #8.01 |
| Application Techniques for PS Film | #8.10 |
| Cutting Methods | #8.20 |
| Computer Sign Cutting | #8.25 |
| Screen Preparation | #8.30 |
| Troubleshooting Printing & Processing | #8.34 |
| Ink Recommendations Guide | #8.55 |

Substrates:

The application of Avery Dennison OmniCube Series sheeting is limited to properly prepared substrates which differ by product. For traffic products, application is limited to properly prepared Aluminum. For products in the W-11100 line, application is limited to properly prepared plastic. Users are urged to carefully evaluate, under actual use conditions, any film application to other substrates. Failure of film caused by other substrates, materials, contamination, or improper surface preparation is not the responsibility of Avery Dennison. See Instruction Bulletin #8.01 for full details on substrate requirements.

DEFINITIONS

Durability: means that the Product in a finished graphic, panel or sign situated outdoors, subject to the limitations herein and Avery Dennison Product Data Sheets and Instructional Bulletins, and applied to recommended surfaces, will not deteriorate excessively such that the finished sign, panel or graphic is ineffective for its identification when viewed under normal conditions from the intended viewing distance.

Outdoor Durability: is based on normal middle European and central North American outdoor exposure conditions and application to recommended surfaces. Actual performance life will depend on a variety of factors, including but not limited to substrate preparation, exposure conditions and maintenance of the Product and finished graphic, panel or sign. In case the finished graphics, panel or sign is in areas of high temperatures or humidity, in industrially polluted areas or other areas with air laden particulate matter, and/or in high altitudes, Outdoor Durability may be reduced. Please see your local Avery Dennison representative for changes to warranties based on such localized conditions.

Vertical Exposure: means that the face of the finished graphic is $\pm 10^\circ$ from vertical.

Non-Vertical Exposure: means that the face of the finished graphic is greater than 10° from vertical and greater than 5° from horizontal. Retroreflective films are not warranted for this exposure.

Flat surfaces: means a two dimensional flat surface without protruding objects.

Weathering Effects: Some degradation of Product performance over time is considered normal wear. Slight color fading, chalking, edge lifting, or slight reduction in gloss or reflectivity due to normal wear exposure and other natural weathering, environmental or other conditions or damage caused by tornadoes, hurricanes, wind, excessive ice buildup or extraordinary frozen particulate conditions, large hail stones or other acts of God, do not constitute a breach of warranty or give rise to any liability by Avery Dennison.

Printing, Curing and Ink Defects: ink contaminations, failures or other defects, or other failures due to improper printing conditions or settings including, but not limited to, unsuitable color calibration, incorrect ICC color profile or incompatible printing, do not constitute a breach of warranty. Product failure caused by ink over-saturation, excessive or under curing, failure of ink to render desired colors on Product, or other treatment or processing errors are not warranted.

Adhesion to Application Surfaces: This warranty does not cover the Product if the application surface is not properly prepared; nor does the warranty cover the Product or damage to the substrate because the layers of the substrate separate due to a lower bond between those layers than the bond between the Product and the top layer of the substrate, or surfaces which subsequently crack, peel, outgas, or become damaged beneath the Product.

INDEPENDENT TESTING REQUIRED

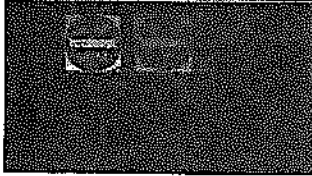
All statements, technical information and recommendations about Avery Dennison products are based upon tests and information believed to be reliable but do not constitute a guarantee or warranty of any kind. All Avery Dennison products are sold with the understanding that Purchaser has independently determined the suitability of such products for its intended and other purposes.

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US Patent RE40,700E US Patent RE 40,455E



Play Video



Science of Roadway Safety Module 6 - Regulatory Signs (2:57)

Specifications

| | |
|----------------------------------|--|
| Adhesive Type | Pressure-sensitive, Solvent free |
| Application | Regulated Rigid Traffic Signs |
| Application Instructions | See Product Bulletin |
| Availability | Non-Standard, Standard |
| Brand | Diamond Grade™ |
| Color Family | Brown, White |
| Construction | Full-cube prismatic, Microprismatic |
| Dimensions | 12" x 50 yds, 12-3/4" x 50 yds, 18" x 50 yds, 2" x 50 yds, 24" x 50 yds, 30" x 50 yds, 36" x 50 yds, 40" x 50 yds, 48" x 50 yds, 6" x 50 yds, 9" x 50 yds |
| Durability | 12 years, See Product Bulletin |
| For Use On | Aluminum, Plywood, Polyethylene |
| Imaging Method | Digital Print, Overlay / Electrocut Films, Screen Print |
| Liner | Yes |
| Mark | Single European Mark (SEM) |
| Overall Length (Imperial) | 100 yd, 50 yd |
| Overall Length (Metric) | 45.72 m, 91.44 m |
| Overall Width (Imperial) | 12 in, 12.75 in, 18 in, 2 in, 24 in, 30 in, 36 in, 40 in, 48 in, 6 in, 9 in |
| Overall Width (Metric) | 1016 mm, 1219.2 mm, 152.4 mm, 228.6 mm, 304.8 mm, 323.85 mm, 457.2 mm, 50.8 mm, 609.6 mm, 762 cm, 914.4 mm |
| Performance Level | Diamond Grade |
| Performance Tier | DG3 |
| Product Code | 4090, 4090T, 4091, 4092, 4095, 4097, 4099 |
| Product Color | Blue, Brown, Green, Red, Translucent White, White, Yellow |

| | |
|---------------------------------|--|
| Product Series | 4090 |
| Size | Sheets |
| Specifications | MetAll ETA Class 3 tables, ASTM D4956 Type XI |
| Substrate | Aluminum, Metal, Polyethylene Devices |
| TDS Required | Yes |
| Total Recycled Content % | C |

Details

- 3M™ Diamond Grade™ DG³ Reflective Sheeting Series 4000 offers superior reflectivity at short and long distances.
 - Meets today's highest published performance specifications
 - 3M's best solutions for sign positions outside of primary headlight illumination
 - One of the brightest durable sheeting for cost-efficient guidance
 - Offers excellent life-cycle value
 - Short, medium and long sight distances
 - Disadvantaged sign placement locations such as overhead or left shoulder
- Performance warranted for up to 12 years

Suggested Applications

- Short, medium and long sight distances
- Disadvantaged sign placement locations such as overhead or left shoulder

Resources

Brochures

- 3M™ Diamond Grade™ DG³ Reflective Sheeting Brochure (PDF, 3.4MB)
- 3M™ Diamond Grade™ DG³ Black Spots Campaign Flyer (PDF, 464.2KB)
- 3M™ Diamond Grade™ DG³ Sustainability Flyer - Spanish (PDF, 400.6KB)
- 3M™ Diamond Grade™ DG³ Black Spots Campaign Flyer – Spanish (PDF, 313.9KB)

Bulletins

- PB 4000 3M™ Diamond Grade™ DG³ Reflective Sheeting (PDF, 227.5KB)

Flyers

- 3M™ Diamond Grade™ DG Cubed Reflective Sheeting (PDF, 1.2MB)
- 3M™ Diamond Grade™ DG³ Sustainability Flyer (PDF, 531.3KB)

Marketing Promotional Videos

- 3M Diamond Grade™ Brand Video (MP4, 153.0MB)
- 3M DG Hub UV Demo (MP4, 156.8MB)
- 3M DG Hub Laser Demo (MP4, 222.2MB)
- 3M DG Hub Stop Sign Demo (MP4, 228.5MB)

Warranty

Warranty Options

- **3M Performance Guarantee**

When 3M™ MCS™ Warranty approved inks aren't an option, try a 3M Performance Guarantee for specific 3M Inkjet products with qualified and tested OEM inks.

- **3M™ MCS™ Warranty**

Get protection for almost any application with a comprehensive non-regulated, finished sign warranty for almost all finished signs you create.

- **3M™ MCS™ Warranty for Traffic**

Our premier warranty provides top-of-the-line coverage for regulated, finished signs. When you use 3M traffic sign materials, you get all the benefits of the 3M™ MCS™ Warranty, plus guaranteed traffic colors and retroreflectivity retention.