
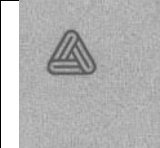
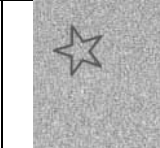
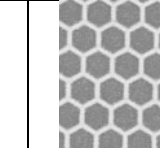
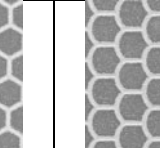
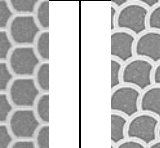
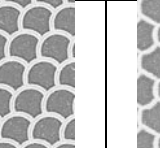
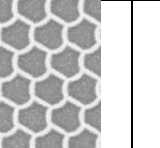


# 2014 Traffic Sign Retroreflective Sheeting Identification Guide

This document is intended to help identify sign sheeting materials for rigid signs and their common specification designations. It is not a qualified product list. FHWA does not endorse or approve sign sheeting materials. Many other sheeting materials not listed here are available for delineation and construction/work zone uses.

Many sign sheeting materials have watermarks and/or patterns that are used to identify the material type and manufacturer. The watermarks shown in this guide have been enhanced. The watermarks will be less visible in practice and may not be present on smaller pieces of sheeting due to the spacing.

## Retroreflective Sheeting Materials Made with Glass Beads

Example of Sheeting (Shown to scale)								
ASTM D4956-04	I	II	II	III	III	III	III	III
ASTM D4956-13	I	II	II	III	III	III	III	III
AASHTO M268-13	(1)	(1)	(1)	A	A	A	A	A
Manufacturer	Several companies	Avery Dennison®	Nippon Carbide	3M™	ATSM, Inc.	Avery Dennison®	Nippon Carbide	ORAFOL Americas Inc
Brand Name	Engineer Grade	Super Engr Grade	Super Engr Grade	High Intensity	High Intensity	High Intensity	High Intensity	ORALITE® High Intensity
Series	Several	T-2000	15000	2800 3800	ATSM HI	T-5500	N500	5800
NOTES:	(2) (8)	(3) (4) (9)	(4)	(3) (4) (9)	(4)	(4)	(4)	(4)

- 1) Sheeting material does not meet minimum AASHTO classification criteria.
- 2) Glass Bead Engineer Grade sheeting is uniform without any patterns or identifying marks.
- 3) Material no longer sold in the United States as of the date of this publication.
- 4) Section 2A.08 of the 2009 MUTCD (<http://mutcd.fhwa.dot.gov>) does not allow this sheeting type to be used for new legends on green signs.

- ASTM D4956-04 is referenced in Table 2A-3 of the 2009 MUTCD.
- ASTM D4956-13 is the most current ASTM sign sheeting specification (the 2013 version is designated by "-13").
- AASHTO M268-13 is the most current AASHTO specification (the 2013 version is designated by "-13").

## Manufacturer Contact Information

3M - <a href="http://www.3M.com/roadwaysafety">http://www.3M.com/roadwaysafety</a>	ATSM, Inc. - <a href="http://www.atsminc.com">http://www.atsminc.com</a>
Avery Dennison - <a href="http://www.reflectives.averydennison.com">http://www.reflectives.averydennison.com</a>	Nippon Carbide - <a href="http://www.nikkalite.com">http://www.nikkalite.com</a>
ORAFOL Americas Inc. - <a href="http://www.orafolamericas.com">http://www.orafolamericas.com</a>	

