

DMDA-8007 NT 7 UNIPOL™

Polyolefins

- High Density Polyethylene
 - Complies with U.S. FDA 21 CFR 177.1520(c) 2.2
 - Complies with Canadian HPFB No Objection (With Limitations)
 - Complies with Europe EU-Directive 2002/72/EC (See Notes)
- Consult the regulations for complete details.

Physical Properties	Test Method	Values ⁽¹⁾ English (SI)
Resin Properties		
Melt Index, g/10 min	ASTM D 1238	8.2
Density, g/cc	ASTM D 792	0.965
DSC Melting Point, °F (°C)	Dow Method	271 (133)
Vicat Softening Point, °F (°C)	ASTM D 1525	270 (132)
Film Properties, 1 mil (25.4µm)		
Puncture Resistance, ft-lbf/in. ³ (J/cm ³)	Dow Method	7 (0.6)
Dart Impact (Method A), g	ASTM D 1709	24
Elmendorf Tear, g	MD	36
	CD	155
Tensile Yield, psi (MPa)	MD	2952 (20)
	CD	3242 (22)
Ultimate Tensile, psi (MPa)	MD	3430 (24)
	CD	3242 (22)
Ultimate Elongation, %	MD	668
	CD	493
Tensile Modulus, 2% Secant, psi (MPa)	MD	115,689 (798)
	CD	135,611 (935)
Gloss, 45°	ASTM D 2457	75
Haze, %	ASTM D 1003	8

Fabrication Conditions For Cast Film:

- Screw A, Size: 2 in. (51 mm); 30:1 L/D
Screw Speed: 39 rpm
- Screw B, Size: 2.5 in. (63.5 mm); 30:1 L/D
Screw Speed: 39 rpm
- Screw C, Size: 2.5 in. (63.5 mm); 30:1 L/D
Screw Speed: 39 rpm
- Screw D, Size: 2.5 in. (63.5 mm); 30:1 L/D
Screw Speed: 39 rpm
- Screw E, Size: 2 in. (51 mm); 30:1 L/D
Screw Speed: 39 rpm
- Screw Type: DSB II
- Melt Temperature: 500°F (261°C)
- Chill Roll Temperature: 70°F (21°C)
- Line Speed: 400 fpm (123 m/min)
- Output: 426 lb/hr
- Die width: 36 in. (914 mm)
- Die gap: 25 mil (0.6 mm)

(1) Typical values, not to be construed as specifications. Users should confirm results by their own tests.

-See "Handling Considerations" attached

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Handling Considerations

Material Safety Data (MSD) sheets for the product are available from Dow Plastics, a business group of The Dow Chemical Company and its subsidiaries, to help customers further satisfy their own safe handling and disposal needs and those that may be required by OSHA. Material Safety Data sheets on Dow products are intended to provide customers with essential information on such topics as Health and Worker Safety, Combustibility, and Disposal Considerations. Such information should be requested from the supplier(s) of any product(s) prior to working with it. As various additives and processing aids used in fabrication have their own safe use profile, their possible influence on handling and disposal must be investigated separately. For "Regulated" uses, such as food contact, your Dow sales representative can obtain compliance letters for specific resins.

Disposal

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/provincial, and local laws and regulations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

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Additional Information

For more information in the United States or Canada, call 1-800-441-4369. In Mexico, call 95-800-441-4369.

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Dow Plastics

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