DOW™ DMDA-8812 NT 7
High Density Polyethylene Resin

Overview

For Extrusion Coating Applications

Complies with:

- U.S. FDA 21 CFR 177.1520 (c) 3.1a

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.952	g/cm³	0.952	g/cm³	ASTM D792
Base Density [1]	0.952	g/cm³	0.952	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	10	g/10 min	10	g/10 min	ASTM D1238
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	261	°F	127	°C	ASTM D1525
Melting Temperature (DSC)	266	°F	130	°C	Dow Method

Extrusion	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Melt Temperature	575 to 630	°F	302 to 332	°C	
Melt Temperature (Aim)	600	°F	316	°C	
Maximum Line Speed [2]	> 25.0	ft/sec	> 7.6	m/sec	Dow Method
Minimum Coating Thickness [2]	0.25	mil	6.4	µm	Dow Method
Minimum Coating Weight [2]	4.0	lb/ream	6.5	g/m²	Dow Method
Neck-in [3] (610°F (321°C), 1.0 mil (25.4 µm))	5.1	in	130.2	mm	Dow Method

Extrusion Notes

Fabrication Conditions For Extrusion Coating:

- Screw Size: 3.5 in. (89 mm); 30:1 L/D
- Screw Type: Single Flight
- Die Gap: 20 mil (0.508 mm)
- Melt Temperature: 600°F (300°C)
- Output: 250 lb/hr
- Screw Speed: 90 rpm
- Hauloff speed: 440 fpm

Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

[2] 1.0 mil (25µm) coating onto 50 lb Kraft paper.

[3] 1.0 mil (25µm) coating onto 50 lb Kraft paper.
Neck In Results for DMDA 8812 blended w/ 15% LDPE 722 (8MI, 0.918).

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