



DOW™ HDPE DMDA-8810 NT 7 High Density Polyethylene Resin

Overview

- For Extrusion Coating Applications
- Complies with U.S. FDA 21 CFR 177.1520 (c)
- Europe Commission Regulation (EU) No 10/2011
- Consult the regulations for complete details

Additive

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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.950 g/cm ³	0.950 g/cm ³	ASTM D792
Base Density ¹	0.950 g/cm ³	0.950 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	12 g/10 min	12 g/10 min	ASTM D1238
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	262 °F	128 °C	ASTM D1525
Melting Temperature (DSC)	270 °F	132 °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/m ²	Dow Method
Neck-in ² (610°F (321°C), 1.0 mil (25.4 µm))	2.8 in	69.9 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

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.

