



DOW™ LDPE 4016

Low Density Polyethylene Resin

Overview

- A high melt index resin for high speed thin coating applications
- Complies with U.S. FDA 21 CFR 177.1520 (c) 2.1.
- Complies with Canadian HPFB No Objection (With Limitations)
- Consult the regulations for complete details.

Polyethylene 4016 can be used for a variety of applications such as condiment packaging, dry foods packaging, snack foods packaging, moist foods packaging, sugar pouches, lidding stock and medical packaging.

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D792
Base Density ¹	0.918 g/cm ³	0.918 g/cm ³	Dow Method
Melt Index (190°C/2.16 kg)	16 g/10 min	16 g/10 min	ASTM D1238

Extrusion	Nominal Value (English)	Nominal Value (SI)	Test Method
Melt Temperature	600 to 620 °F	316 to 327 °C	
Maximum Line Speed	> 25.0 ft/sec	> 7.6 m/sec	Dow Method
Minimum Coating Thickness	0.30 mil	7.6 µm	Dow Method
Minimum Coating Weight	4.0 lb/ream	6.5 g/m ²	Dow Method
Neck-in (610°F (321°C), 1.0 mil (25.4 µm))	2.4 in	61.0 mm	Dow Method

Extrusion Notes

Fabrication Conditions For Extrusion Coating Film:

- Screw Size: 3.5 in. (89 mm); 30:1 L/D
- Screw Type: Single Flight with Maddock Mixer
- Die Gap: 20 mil (0.508 mm)
- Melt Temperature: 625°F (329°C)
- Output: 250 lb/hr
- Screw Speed: 90 rpm
- Guage 1.0 mil (25µm)

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.

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