



DOWLEX™ 2036G

The Dow Chemical Company - Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

- Linear Low Density Polyethylene
- Improved thermal stability for high stiffness film applications
- Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a
- Complies with U.S. FDA-DMF
- Complies with Canadian HPFB No Objection (With Limitations)
- Complies with EU, No 10/2011
- Complies with Japan Hygienic Olefin and Styrene Plastics Association
- Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Latin America	• North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• HPFB (Canada) No Objection ¹	
	• FDA 21 CFR 177.1520(c) 3.2a	• JHOSPA Unspecified Rating	
Forms	• Pellets		
Processing Method	• Blown Film	• Cast Film	

ASTM & ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.937		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Film Puncture Resistance (1.0 mil)	125	ft·lb/in ³	Internal Method
Film Toughness - MD (1.0 mil)	3910	ft·lb/in ³	ASTM D882
Film Toughness - TD (1.0 mil)	3720	ft·lb/in ³	ASTM D882
Tensile Strength - MD (Yield, 1.0 mil)	2450	psi	ASTM D882
Tensile Strength - TD (Yield, 1.0 mil)	2550	psi	ASTM D882
Tensile Strength - MD (Break, 1.0 mil)	8590	psi	ASTM D882
Tensile Strength - TD (Break, 1.0 mil)	5790	psi	ASTM D882
Tensile Elongation - MD (Break, 1.0 mil)	620	%	ASTM D882
Tensile Elongation - TD (Break, 1.0 mil)	750	%	ASTM D882
Dart Drop Impact (1.0 mil)	57	g	ASTM D1709A
Elmendorf Tear Strength - MD (1.0 mil)	83	g	ASTM D1922
Elmendorf Tear Strength - TD (1.0 mil)	290	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	246	°F	ASTM D1525
Melting Temperature (DSC)	257	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.00 mil)	90		ASTM D2457
Haze (1.00 mil)	2.60	%	ASTM D1003

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Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	525	°F

Extrusion Notes

Fabrication Conditions For Cast Film:

Monolayer cast film produced on 5 layer cast line:

- Screw Size: 2 in. (51 mm); 30:1 L/D
- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Size: 2.5 in. (63.5 mm); 30:1 L/D
- Screw Size: 2 in. (51 mm); 30:1 L/D
- Die Gap: 25 mil (0.6 mm)
- Chill Roll Temperature: 70°F (21°C)
- Melt Temperature: 525°F (274°C)
- Line Speed: 600 fpm (183 m/min)

Notes

¹ With limitations

² Typical properties: these are not to be construed as specifications.