



DOWLEX™ 2036.01G

The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

DOWLEX™ 2036.01G Linear Low Density Polyethylene Resin is suitable for the production of cast films with high stiffness, good tear strength and outstanding toughness. It can be used in skin layers of coextruded cast films made from DOWLEX resins to provide a surface with good slip properties.

Complies with:

- EU, NO 10/2011
- FDA 21 CFR 177.1520(c) 3.2a.

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• FDA 21 CFR 177.1520(c) 3.2a	
Forms	• Pellets		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.935		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 Puncture Resistance	125	ft-lb/in ³	Internal Method
Film Toughness - MD	3910	ft-lb/in ³	ASTM D882
Film Toughness - TD	3720	ft-lb/in ³	ASTM D882
Tensile Strength - MD (Yield)	2450	psi	ASTM D882
Tensile Strength - TD (Yield)	2550	psi	ASTM D882
Tensile Strength - MD (Break)	8590	psi	ASTM D882
Tensile Strength - TD (Break)	5790	psi	ASTM D882
Tensile Elongation - MD (Break)	620	%	ASTM D882
Tensile Elongation - TD (Break)	750	%	ASTM D882
Dart Drop Impact	57	g	ASTM D1709A
Elmendorf Tear Strength - MD ²	83	g	ASTM D1922
Elmendorf Tear Strength - TD ²	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°)	90		ASTM D2457
Haze	2.60	%	ASTM D1003

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	525	°F

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Extrusion Notes

Fabrication Conditions For Cast Film:

- EGAN/Davis-Standard 5 layer cast line
- Melt Temperature: 525°F (274°C)
- Chill Roll (primary/secondary) Temperature: 70°F (21°C)
- Line Speed: 600 fpm (183m/min)
- Die Width: 24in. (520mm)
- Die Gap: 25mil (0.6mm)

Notes

¹ Typical properties: these are not to be construed as specifications.

² Method B
