

DOWLEX™ 2036.01G

Linear Low Density Polyethylene Resin
The Dow Chemical Company

Message:

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 coextreuded cast films made from DOWLEX resins to provide a surface with good slip properties. Complies with:
EU, N0 10/2011
FDA 21 CFR 177.1520(c) 3.2a.
Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.933	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Puncture Resistance	10.3	J/cm³	Internal method
Film strength			ASTM D882
MD	324	J/cm³	ASTM D882
TD	308	J/cm³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	16.9	MPa	ASTM D882
TD: Yield	17.6	MPa	ASTM D882
MD: Fracture	59.2	MPa	ASTM D882
TD: Fracture	39.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	620	%	ASTM D882
TD: Fracture	750	%	ASTM D882
Dart Drop Impact	57	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD	83	g	ASTM D1922
TD	290	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	119	°C	ASTM D1525
Melting Temperature (DSC)	125	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	90		ASTM D2457

Haze	2.6	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	274	°C	
Extrusion instructions			
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)			
NOTE			
1.	Method B		

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