

DOWLEX™ 2285G

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX 2285G is a blown film extrusion linear low density polyethylene resin grade suitable for high toughness film applications.

Main Characteristics:

Linear Low Density Polyethylene/Octene Copolymer

For film applications that require high toughness properties or improve bubble stability

Complies with:

U.S. FDA 21 CFR 177.1520(c) 3.2a

Europe EU-Directive 2002/72/EC

Consult the regulations for complete details.

General Information			
Additive	Anti-caking agent (5100 ppm) Slip agent (920 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	4.18	J	Internal method
Film Puncture Force	53.4	N	Internal method
Film Puncture Resistance	20.5	J/cm ³	Internal method
Film strength			ASTM D882
MD	87.9	J/cm ³	ASTM D882
TD	112	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	188	MPa	ASTM D882
2% secant, MD	171	MPa	ASTM D882
1% secant, TD	208	MPa	ASTM D882
2% secant, TD	183	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	11.1	MPa	ASTM D882
TD: Yield	11.4	MPa	ASTM D882
MD: Fracture	44.8	MPa	ASTM D882

TD: Fracture	42.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	450	%	ASTM D882
TD: Fracture	640	%	ASTM D882
Dart Drop Impact	620	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD	380	g	ASTM D1922
TD	660	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ASTM D1525
Melting Temperature	119	°C	
Optical	Nominal Value	Unit	Test Method
Gloss	41		ASTM D2457
Haze	19	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	224	°C	
Extrusion instructions			
Fabrication Conditions For Blown Film: Screw Size: 3.5 in. Screw Type: DSB II Die Gap: 70mil Melt Temperature: 436°F Output: 12 lb/hr/in. of die circumference Die Diameter: 8 in. Blow-Up Ratio: 2.5 to 1 Screw Speed: 38.9 rpm Frost Line Height: 40 in.			
NOTE			
1.	Method B		

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