

DOWLEX™ 6000G

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX* 6000G Polyethylene Resin is an ethylene, 1-octene copolymer, suitable for high performance blown film applications, alone or in blends with LDPE. It offers superior seal performance at high extrusion output rates and an excellent balance of optical and mechanical properties.

Main Characteristics:

Optimum extruder output and stability, pure or in blends.

Combination of sealability with optical and mechanical properties

Applications:

Industrial & Consumer films.

Stretch Hood films.

Stretch Cling films

Complies with:

Europe Commission Regulation (EU) No 10/2011EU

U.S. FDA FCN 424

Consult the regulations for complete details

General Information			
Agency Ratings		FDA FCN 424	
		Europe 10/1/2011 12:00:00 AM	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.916	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
2% secant, MD	100	MPa	ISO 527-3
2% secant, TD	107	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	5.40	MPa	ISO 527-3
TD: Yield, 50 µm	7.20	MPa	ISO 527-3
MD: Break, 50 µm	36.7	MPa	ISO 527-3
TD: Break, 50 µm	37.6	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 50 µm	570	%	ISO 527-3
TD: Break, 50 µm	640	%	ISO 527-3
Dart Drop Impact (50 µm)	980	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	860	g	ASTM D1922
TD : 50 µm	1100	g	ASTM D1922

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ¹	96.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm)	66		ASTM D2457
Clarity (50.0 µm)	99.0		ASTM D1746
Haze (50.0 µm)	8.5	%	ISO 14782
Extrusion instructions			
Fabrication Conditions for Blown Film Resin: Melt Temperature: 190 to 240°C Blow-Up Ratio: 1.5 to 3.1 Recommended Gauge Range: 10 to150 µm			
NOTE			

1. Compression moulded samples

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