

AGILITY™ 1000 Performance LDPE

Low Density Polyethylene Resin
The Dow Chemical Company

Message:

AGILITY™ 1000 Performance LDPE is a high pressure LDPE resin designed specifically to run at faster output rates on blown film lines in blends with LLDPE resins while maintaining bubble stability. AGILITY™ 1000 Performance LDPE also has excellent shrink and good optics performance in blends with LLDPE resins.

Main Characteristics:

Faster processing LDPE resin

Designed for higher output rates in blends with LLDPE resins

Excellent shrink

Complies with:

U.S. FDA, 21 CFR 177.1520(c)2.2

Canadian HPFB No Objection

Consult the regulations for complete details.

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 2.2	
		HPFB (Canada) No Objection	
Forms		Particle	
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.18	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	6.04	J/cm³	Internal method
secant modulus			ASTM D882
1% secant, MD: 51 µm	221	MPa	ASTM D882
2% secant, MD: 51 µm	200	MPa	ASTM D882
1% secant, TD: 51 µm	254	MPa	ASTM D882
2% secant, TD: 51 µm	225	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	12.4	MPa	ASTM D882
TD: Yield, 51 µm	12.7	MPa	ASTM D882
MD: Fracture, 51 µm	28.0	MPa	ASTM D882
TD: Fracture, 51 µm	26.8	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	390	%	ASTM D882
TD: Fracture, 51 µm	560	%	ASTM D882
Dart Drop Impact (51 µm)	270	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD : 51 µm	180	g	ASTM D1922

TD : 51 μm	200	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	109	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 μm)	61		ASTM D2457
Clarity (50.8 μm)	92.0		ASTM D1746
Haze (50.8 μm)	10	%	ASTM D1003
Extrusion instructions			
Fabrication Conditions For Blown Film: Screw Size: 3.5 in. (88.9 mm), 30:1 L/D Die Gap: 30 mil (1.78mm) Melt Temperature: 423°F (217°C) Output: 10 lb/hr/in. of die circumference Die Diameter: 8 in. Blow-Up Ratio: 2.5 to 1 Screw Speed: 45.3 rpm Frost Line Height: 31 in. (787 mm)			
NOTE			

1. Method B

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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