

AGILITY™ 2001

Low Density Polyethylene Resin
The Dow Chemical Company

Message:

AGILITY™ 2001 Performance LDPE Resin is a high pressure LDPE resin offering clarity combined with high shrink tension and strength.

Main Characteristics:

- Optimum LDPE for retail shrink packaging
- Excellent combination of shrink force and sparkling optics
- Toughness for demanding applications

Complies with:

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

Consult the regulations for complete details

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.924	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Film Puncture Resistance (51 µm)	5.46	J/cm ³	Internal method
Film strength			ASTM D882
MD : 51 µm	94.5	J/cm ³	ASTM D882
TD : 51 µm	94.9	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD: 51 µm	250	MPa	ASTM D882
1% secant, TD: 51 µm	272	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	15.4	MPa	ASTM D882
TD: Yield, 51 µm	14.2	MPa	ASTM D882
MD: Fracture, 51 µm	30.2	MPa	ASTM D882
TD: Fracture, 51 µm	25.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	440	%	ASTM D882
TD: Fracture, 51 µm	600	%	ASTM D882
Dart Drop Impact (51 µm)	120	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD : 51 µm	280	g	ASTM D1922
TD : 51 µm	570	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	113	°C	Internal method

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 µm)	91		ASTM D2457
Haze (50.8 µm)	4.8	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	231	°C	
Extrusion instructions			
Fabrication Conditions For Blown Film: Screw Size: 2.5 in. (63.5 mm); 30:1 ratio L/D Screw Type: DSB II Die Gap: 40 mil (1.78mm) Melt Temperature: 448°F (231°C) Output: 10 lb/hr/in. of die circumference Die Diameter: 6 in. Blow-Up Ratio: 2.5 to 1 Screw Speed: 50 rpm Frost Line Height: 25 in. (635 mm)			
NOTE			
1.	Method B		

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