

AGILITY™ 1022 Performance LDPE

Low Density Polyethylene Resin
The Dow Chemical Company

Message:

AGILITY™ 1022 Performance LDPE resin is a high pressure LDPE resin designed to run at faster output rates on blown film lines in LLDPE blends while maintaining optics.

Main Characteristics:

Faster Processing LDPE resin

Designed for higher output rates in blends with LLDPE resin at 20-30% loading

Optimized molecular structure gives improved optics in blends with LLDPE reins

Complies with:

U.S.FDA 21 CFR 177.1520 (c) 2.1

EU No 10/2011

Canadian HPFB No Objection

Consult the regulations for complete details

General Information			
Additive	Anti-caking agent (2000 ppm)		
	Sliding agent (400 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	0.452	J	
Film Puncture Force	17.8	N	
Film Puncture Resistance	2.48	J/cm ³	
Film strength			ASTM D882
MD	28.1	J/cm ³	ASTM D882
TD	42.2	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	201	MPa	ASTM D882
2% secant, MD	181	MPa	ASTM D882
1% secant, TD	250	MPa	ASTM D882
2% secant, TD	212	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	10.7	MPa	ASTM D882

TD: Yield	11.7	MPa	ASTM D882
MD: Fracture	23.1	MPa	ASTM D882
TD: Fracture	13.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	150	%	ASTM D882
TD: Fracture	380	%	ASTM D882
Dart Drop Impact	55	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	260	g	ASTM D1922
TD	120	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	91.0	°C	ASTM D1525
Melting Temperature (DSC)	109	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	60		ASTM D2457
Haze	8.0	%	ASTM D1003

Extrusion instructions

Fabrication Conditions for 1 mil monolayer blown film at 100%

Die Diameter: 8 in.

Screw Type: DSB II

Die Gap: 70 mil

Output: 12 lb/hr/in. of die circumference

Screw Size: 3.5 in.

Blow-Up Ratio: 2.5 to 1

Screw Speed: 50 rpm

Frost Line Height: 39 in.

Melt Temperature: 383°F

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT