

NOVA Chemicals Novapol® PF-0218-D Butene LLDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Butene, Film

Material Notes:

Film Properties. Features: High MI for easier extrusion.Applications: Trash bags, bags-on-roll, garment film.Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-PF-0218-D-Butene-LLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in³	ASTM D792
Thickness	38.1 microns	1.50 mil	
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 190 °C	2.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.00 MPa	1310 psi	ASTM D882
Film Elongation at Break, MD	690 %	690 %	ASTM D882
Film Elongation at Break, TD	740 %	740 %	ASTM D882
Secant Modulus, MD	0.180 GPa	26.1 ksi	ASTM D882
Secant Modulus, TD	0.200 GPa	29.0 ksi	ASTM D882
Coefficient of Friction	<= 0.20	<= 0.20	ASTM D1894
Elmendorf Tear Strength, MD	3.50 g/micron	88.9 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	10.6 g/micron	269 g/mil	ASTM D1922
Dart Drop	3.00 g/micron	76.2 g/mil	F 50; ASTM D1709/A
Film Tensile Strength at Break, MD	30.0 MPa	4350 psi	ASTM D882
Film Tensile Strength at Break, TD	25.0 MPa	3630 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	20 % @Thickness 0.0250 mm	20 % @Thickness 0.000984 in	ASTM D1003

Optical Properties	Metric	English	Comments
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95.1 TMM, ASTM D1894

Processing Properties	Metric	English	Comments
Melt Temperature	195 - 205 °C	383 - 401 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China