

NOVA Chemicals Novapol® TF-Y826-D Hexene LLDPE Film Resin

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

Material Notes:

Film Properties. Features: High strength and toughness, excellent puncture resistance, good stiffness and machinability.Applications:

Premium trash bags, bags-on-roll.Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-TF-Y826-D-Hexene-LLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in³	ASTM D792
Thickness	38.1 microns	1.50 mil	
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.0 MPa	1890 psi	ASTM D882
Film Tensile Strength at Yield, TD	14.0 MPa	2030 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	700 %	700 %	ASTM D882
Secant Modulus, MD	0.210 GPa	30.5 ksi	ASTM D882
Secant Modulus, TD	0.250 GPa	36.3 ksi	ASTM D882
Coefficient of Friction	<= 0.20	<= 0.20	ASTM D1894
Elmendorf Tear Strength, MD	6.30 g/micron	160 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	21.7 g/micron	551 g/mil	ASTM D1922
Dart Drop	5.50 g/micron	140 g/mil	F 50; ASTM D1709/A
Film Tensile Strength at Break, MD	44.0 MPa	6380 psi	ASTM D882
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	18 % @Thickness 0.0250 mm	18 % @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 - 220 °C	383 - 428 °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