

NOVA Chemicals Novapol® LF-Y819-A LDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Film Grade

Material Notes:

Film Properties. Features: Good strength and toughness, excellent shrink film characteristics, excellent processability. Applications: Industrial packaging, shrink film, blends with LLDPE, small diameter pipe and tubing. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-LF-Y819-A-LDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
Thickness	38.1 microns	1.50 mil	
Melt Flow	0.75 g/10 min @Load 2.16 kg, Temperature 190 °C	0.75 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	400 %	400 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	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	>= 0.60	>= 0.60	ASTM D1894
Elmendorf Tear Strength, MD	7.50 g/micron	191 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.50 g/micron	88.9 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	20.0 MPa	2900 psi	ASTM D882
Film Tensile Strength at Break, TD	18.0 MPa	2610 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	15 % @Thickness 0.0250 mm	15 % @Thickness 0.000984 in	ASTM D1003

Optical Properties	Metric	English	Comments
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90 - 110%, ASTM D1894

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 190 °C	338 - 374 °F	

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