

NOVA Chemicals Novapol® LF-Y320-C Fractional Melt LDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Features: High melt strength and superior bubble stabilityEnhances throughputs in LLDPE blendsSuperior strength and toughnessExcellent shrink film characteristics Applications: Industrial packagingLinersShrink filmBlends with LLDPEInformation provided by Nova Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-LF-Y320-C-Fractional-Melt-LDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in³	ASTM D792
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 190 °C	0.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	15.2 MPa	2200 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Yield, MD	110 %	110 %	ASTM D882
Film Elongation at Yield, TD	450 %	450 %	ASTM D882
Coefficient of Friction	>= 0.45	>= 0.45	ASTM D1894
Elmendorf Tear Strength, MD	7.80 g/micron	198 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.20 g/micron	81.3 g/mil	ASTM D1922
Dart Drop	6.30 g/micron	160 g/mil	ASTM D1709/A
Film Tensile Strength at Break, MD	29.0 MPa	4200 psi	ASTM D882
Film Tensile Strength at Break, TD	23.1 MPa	3350 psi	ASTM D882
1% Secant Modulus, MD	193 MPa	28000 psi	ASTM D882
1% Secant Modulus, TD	228 MPa	33000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	30 %	30 %	ASTM D1003
Gloss	20 %	20 %	at 45°; ASTM D2457

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