

NOVA Chemicals Novapol® 20% LF-0718-A in PF-0118-B LDPE Film Resin

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

Material Notes:

Improves gloss and reduces haze in blends with LLDPE, Improves melt strength and increases output in blends with LLDPE Applications:

Blends with LLDPE Additives: Base resin Film properties are typical of blown film extruded at a blowup ratio of 2.5:1, but are dependent upon operating conditions. Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-20-LF-0718-A-in-PF-0118-B-LDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D792
Melt Flow	7.0 g/10 min	7.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	ASTM D882
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Secant Modulus, MD	0.180 GPa	26.1 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.240 GPa	34.8 ksi	at 1%; ASTM D882
Impact	50	50	J/mm; NOVA Chemicals Puncture test
Coefficient of Friction	<= 0.20	<= 0.20	ASTM D1894
Elmendorf Tear Strength, MD	1.20 g/micron	30.5 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	15.7 g/micron	399 g/mil	ASTM D1922
Dart Drop	2.20 g/micron	55.9 g/mil	F₅₀, ASTM D1709/A
Film Tensile Strength at Break, MD	33.0 MPa	4790 psi	ASTM D882
Film Tensile Strength at Break, TD	22.0 MPa	3190 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003

Optical Properties	Metric	English	Comments
			ASTM D2457
Descriptive Properties		Value	Comments
Blow Up Ratio		2:1 to 3:1	

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