

NOVA Chemicals Novapol® PF-Y821-D Butene LLDPE Film Resin (discontinued **)

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

Material Notes:

Film Properties. Features: Good stiffness and machinability, good blocking resistance.Applications: Bags-on-roll, produce bags, garment film, trash bags.Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-PF-Y821-D-Butene-LLDPE-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 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	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	550 %	550 %	ASTM D882
Film Elongation at Break, TD	690 %	690 %	ASTM D882
Secant Modulus, MD	0.200 GPa	29.0 ksi	ASTM D882
Secant Modulus, TD	0.230 GPa	33.4 ksi	ASTM D882
Coefficient of Friction	<= 0.20	<= 0.20	ASTM D1894
Elmendorf Tear Strength, MD	3.30 g/micron	83.8 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	13.8 g/micron	351 g/mil	ASTM D1922
Dart Drop	3.50 g/micron	88.9 g/mil	F 50; ASTM D1709/A
Film Tensile Strength at Break, MD	38.0 MPa	5510 psi	ASTM D882
Film Tensile Strength at Break, TD	27.0 MPa	3920 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	16 %	16 %	ASTM D1003

Optical Properties	@Thickness 0.0250 Metric	@Thickness 0.000984 English	Comments
Gloss	45 %	45 %	45°; 1 mil; ASTM D1894

Processing Properties	Metric	English	Comments
Melt Temperature	195 - 220 °C	383 - 428 °F	

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