

NOVA Chemicals Novapol® HF-Y450-A Hexene HDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Copolymer Film Grade

Material Notes:

Film Properties. Features: High strength and stiffness, excellent drawdown, used in blends with LDPE/LLDPE for improved film stiffness. Applications: Grease barrier, lamination films, blending resin, deli bags. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HF-Y450-A-Hexene-HDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D792
Thickness	25.4 microns	1.00 mil	
Melt Flow	0.40 g/10 min @Load 2.16 kg, Temperature 190 °C	0.40 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	22.0 MPa	3190 psi	ASTM D882
Film Tensile Strength at Yield, TD	24.0 MPa	3480 psi	ASTM D882
Film Elongation at Break, MD	529 %	529 %	ASTM D882
Film Elongation at Break, TD	892 %	892 %	ASTM D882
Secant Modulus, MD	0.638 GPa	92.5 ksi	ASTM D882
Secant Modulus, TD	0.769 GPa	112 ksi	ASTM D882
Elmendorf Tear Strength, MD	0.500 g/micron	12.7 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	18.7 g/micron	475 g/mil	ASTM D1922
Dart Drop	2.70 g/micron	68.6 g/mil	F50, ASTM D1709/A
Film Tensile Strength at Break, MD	35.0 MPa	5080 psi	ASTM D882
Film Tensile Strength at Break, TD	33.0 MPa	4790 psi	ASTM D882

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