

NOVA Chemicals Novapol® TF-Y529-BP Hexene LLDPE (discontinued **)

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

Material Notes:

Puncture value is 50 J/mm. Hexene LLDPE. Excellent puncture resistance, good stiffness and machinability, and good tensile properties.

Additive Package: High slip and antiblock, process aid. Applications: Premium trash bags, bags-on-roll, T-shirt sacks. Film properties are typical of 25 µm blown film extruded at a blow-up ratio of 2.5:1, but depend on operating conditions. Information supplied by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-TF-Y529-BP-Hexene-LLDPE-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.929 g/cc	0.0336 lb/in ³	ASTM D792
Thickness	25.4 microns	1.00 mil	
Melt Flow	0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	13.0 MPa	1890 psi	ASTM D882
Film Tensile Strength at Yield, TD	15.0 MPa	2180 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Secant Modulus, MD	0.275 GPa	39.9 ksi	ASTM D882
Secant Modulus, TD	0.330 GPa	47.9 ksi	ASTM D882
Coefficient of Friction	<= 0.20	<= 0.20	ASTM D1894
Elmendorf Tear Strength, MD	4.00 g/micron	102 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	26.0 g/micron	660 g/mil	ASTM D1922
Dart Drop	4.40 g/micron	112 g/mil	F₅₀; ASTM D 1709/A
Film Tensile Strength at Break, MD	48.0 MPa	6960 psi	ASTM D882
Film Tensile Strength at Break, TD	36.0 MPa	5220 psi	ASTM D882

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