

NOVA Chemicals Novapol® TD-9022-D Super Hexene Film Resin

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

Material Notes:

Excellent dart impact, High strength, High toughness
 Applications: Retail trash bags
 Additives: Process stabilizer, Slip/antiblock
 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-TD-9022-D-Super-Hexene-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	ASTM D792
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 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	700 %	700 %	ASTM D882
Secant Modulus, MD	0.160 GPa	23.2 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.190 GPa	27.6 ksi	at 1%; ASTM D882
Impact	60	60	J/mm; NOVA Chemicals Puncture test
Coefficient of Friction	<= 0.20	<= 0.20	ASTM D1894
Elmendorf Tear Strength, MD	18.0 g/micron	457 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	24.0 g/micron	610 g/mil	ASTM D1922
Dart Drop	22.0 g/micron	559 g/mil	F₅₀, ASTM D1709/A
Film Tensile Strength at Break, MD	42.0 MPa	6090 psi	ASTM D882
Film Tensile Strength at Break, TD	35.0 MPa	5080 psi	ASTM D882

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