

NOVA Chemicals Novapol® TF-0338-E Hexene LMDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , MDPE , Linear Medium Density Polyethylene (LMDPE), Film

Material Notes:

Excellent stiffness and glossApplications: Diaper back sheet, BlendingAdditives: High temperature AOFilm properties are typical of film extruded at 280°C.Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-TF-0338-E-Hexene-LMDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.938 g/cc	0.0339 lb/in ³	ASTM D792
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	15.0 MPa	2180 psi	ASTM D882
Film Tensile Strength at Yield, TD	16.0 MPa	2320 psi	ASTM D882
Film Elongation at Break, MD	800 %	800 %	ASTM D882
Film Elongation at Break, TD	1070 %	1070 %	ASTM D882
Secant Modulus, MD	0.320 GPa	46.4 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.380 GPa	55.1 ksi	at 1%; ASTM D882
Impact	80	80	J/mm; NOVA Chemicals Puncture test
Coefficient of Friction	>= 0.80	>= 0.80	ASTM D1894
Elmendorf Tear Strength, MD	1.40 g/micron	35.6 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	8.00 g/micron	203 g/mil	ASTM D1922
Film Tensile Strength at Break, MD	41.0 MPa	5950 psi	ASTM D882
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
Gloss	87 %	87 %	at 45°; ASTM D2457

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