

NOVA Chemicals Surpass® FPs117-D Octene sLLDPE Film Resin (discontinued **)

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

Material Notes:

Applications: Lamination Film, coextruded sealant layer, high toughness film
Information provided by Nova Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-FPs117-D-Octene-sLLDPE-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in ³	ASTM D792
Thickness	25.0 microns	0.984 mil	
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.03 MPa	1310 psi	ASTM D882
Film Tensile Strength at Yield, TD	9.03 MPa	1310 psi	ASTM D882
Film Elongation at Yield, MD	550 %	550 %	ASTM D638
Film Elongation at Yield, TD	725 %	725 %	ASTM D882
Puncture Energy	1.75 J	1.29 ft-lb	Low Friction Puncture
Elmendorf Tear Strength MD	320 g	320 g	ASTM D1922
Elmendorf Tear Strength TD	480 g	480 g	ASTM D1922
Dart Drop Test	800 g	1.76 lb	ASTM D1709/A
Film Tensile Strength at Break, MD	43.0 MPa	6240 psi	ASTM D882
Film Tensile Strength at Break, TD	34.0 MPa	4930 psi	ASTM D882
1% Secant Modulus, MD	134.96 MPa	19575 psi	ASTM D882
1% Secant Modulus, TD	144.96 MPa	21025 psi	ASTM D882
Heat Seal Strength Initiation Temperature	100 °C	212 °F	2N

Optical Properties	Metric	English	Comments
Haze	17 %	17 %	ASTM D1003

Optical Properties	Metric	English	Comments
			at 45 °, ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	185 - 200 °C	365 - 392 °F	

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