

NOVA Chemicals Sclair® FP112-A Octene VLDPE Film Resin

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

Material Notes:

Features: Low seal initiation temperature High toughness Very good optical properties Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a

Low gel Applications: Sealant and lamination film for food packaging Information provided by Nova Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-FP112-A-Octene-VLDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.912 g/cc	0.0329 lb/in ³	ASTM D792
Thickness	51.0 microns	2.01 mil	
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	7.38 MPa	1070 psi	ASTM D882
Film Tensile Strength at Yield, TD	7.38 MPa	1070 psi	ASTM D882
Film Elongation at Yield, MD	640 %	640 %	ASTM D638
Film Elongation at Yield, TD	890 %	890 %	ASTM D882
Puncture Energy	3.162 J	2.332 ft-lb	Low Friction Puncture
Elmendorf Tear Strength MD	710 g	710 g	ASTM D1922
Elmendorf Tear Strength TD	1010 g	1010 g	ASTM D1922
Dart Drop Test	>= 1000 g	>= 2.20 lb	ASTM D1709/A
Film Tensile Strength at Break, MD	49.0 MPa	7110 psi	ASTM D882
Film Tensile Strength at Break, TD	54.0 MPa	7830 psi	ASTM D882
1% Secant Modulus, MD	114.0 MPa	16530 psi	ASTM D882
1% Secant Modulus, TD	123.0 MPa	17840 psi	ASTM D882
Heat Seal Strength Initiation Temperature	72.0 °C	162 °F	

Optical Properties	Metric	English	Comments
Haze	8.7 %	8.7 %	ASTM D1003

Optical Properties	Metric	English	Comments
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at 45 °, ASTM D2457

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