

NOVA Chemicals Sclair® 12J1 Octene LLDPE Film Resin (discontinued **)

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

Material Notes:

Film Properties. Features: Low gel, high clarity.Applications: Overwrap, lamination.Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-12J1-Octene-LLDPE-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D792
Moisture Vapor Transmission	0.350 cc-mm/m ² -24hr-atm	0.889 cc-mil/100 in ² -24hr-atm	ASTM D1434
Water Vapor Transmission	14.0 g/m ² /day	0.902 g/100 in ² /day	ASTM D1434
Melt Flow	0.95 g/10 min @Load 2.16 kg, Temperature 190 °C	0.95 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ASTM D2240
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	ASTM D882
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	ASTM D882
Film Elongation at Break, MD	720 %	720 %	ASTM D882
Film Elongation at Break, TD	940 %	940 %	ASTM D882
Secant Modulus, MD	0.218 GPa	31.6 ksi	ASTM D882
Secant Modulus, TD	0.243 GPa	35.2 ksi	ASTM D882
Coefficient of Friction	>= 0.40	>= 0.40	ASTM D1894
Elmendorf Tear Strength, MD	10.0 g/micron	254 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	22.0 g/micron	559 g/mil	ASTM D1922
Dart Drop	5.00 g/micron	127 g/mil	F 50; ASTM D1709/A
Film Tensile Strength at Break, MD	43.0 MPa	6240 psi	ASTM D882
Film Tensile Strength at Break, TD	37.0 MPa	5370 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Vicat Softening Point Thermal Properties	110 °C Metric	230 °F English	ASTM D1525 Comments
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D696

Optical Properties	Metric	English	Comments
Haze	8.0 % @Thickness 0.0250 mm	8.0 % @Thickness 0.000984 in	ASTM D1003
Gloss	63 %	63 %	45°; 1 mil; ASTM D1894

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 220 °C	410 - 428 °F	

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