

NOVA Chemicals Sclair® 14K1 Octene LMDPE Film Resin (discontinued **)

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

Material Notes:

Film Properties. Features: Low gel, excellent optics, good moisture barrier. Applications: Cast overwrap film. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-14K1-Octene-LMDPE-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.936 g/cc	0.0338 lb/in ³	ASTM D792
Melt Flow	4.8 g/10 min @Load 2.16 kg, Temperature 190 °C	4.8 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	16.0 MPa	2320 psi	ASTM D882
Film Tensile Strength at Yield, TD	15.0 MPa	2180 psi	ASTM D882
Film Elongation at Break, MD	850 %	850 %	ASTM D882
Film Elongation at Break, TD	1100 %	1100 %	ASTM D882
Secant Modulus, MD	0.280 GPa	40.6 ksi	ASTM D882
Secant Modulus, TD	0.310 GPa	45.0 ksi	ASTM D882
Coefficient of Friction	>= 1.0	>= 1.0	ASTM D1894
Elmendorf Tear Strength, MD	2.00 g/micron	50.8 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	12.0 g/micron	305 g/mil	ASTM D1922
Dart Drop	1.00 g/micron	25.4 g/mil	F 50; ASTM D1709/A
Film Tensile Strength at Break, MD	42.0 MPa	6090 psi	ASTM D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	119 °C	246 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	3.0 % @Thickness 0.0250 mm	3.0 % @Thickness 0.000984 in	ASTM D1003
Gloss	85 %	85 %	45°; 1 mil; ASTM D1894

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 °C	500 - 554 °F	

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