

NOVA Chemicals Sclair® 11E1 Butene LLDPE Film Resin (discontinued **)

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

Material Notes:

Film Properties. Features: Low gel, strength and toughness.Applications: Base resin.Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-11E1-Butene-LLDPE-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D792
Melt Flow	1.4 g/10 min	1.4 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	640 %	640 %	ASTM D882
Film Elongation at Break, TD	900 %	900 %	ASTM D882
Secant Modulus, MD	0.200 GPa	29.0 ksi	ASTM D882
Secant Modulus, TD	0.250 GPa	36.3 ksi	ASTM D882
Coefficient of Friction	>= 0.50	>= 0.50	ASTM D1894
Elmendorf Tear Strength, MD	5.00 g/micron	127 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	14.0 g/micron	356 g/mil	ASTM D1922
Dart Drop	2.00 g/micron	50.8 g/mil	F 50; ASTM D1709/A
Film Tensile Strength at Break, MD	35.0 MPa	5080 psi	ASTM D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	84.0 °C	183 °F	ASTM D1525
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D696

Optical Properties	Metric	English	Comments
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Optical Properties	8.0 % Metric	8.0 % English	Comments
	@Thickness 0.0250 mm	@Thickness 0.000984 in	ASTM D1003
Gloss	57 %	57 %	45°; 1 mil; ASTM D1894

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 230 °C	428 - 446 °F	

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