

NOVA Chemicals Sclair® 11U4 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, good clarity, easy processability. Applications: Bread bags, HDPE bottle sleeves, specialty blending. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-11U4-Butene-LLDPE-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 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
Oxygen Transmission	120 cc-mm/m ² -24hr-atm	305 cc-mil/100 in ² -24hr-atm	or 4800 cc/m ² -atm-24 hr per 25 µm film; 38°C; 90% RH Difference
Melt Flow	1.4 g/10 min @Load 2.16 kg, Temperature 190 °C	1.4 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	16.0 MPa	2320 psi	ASTM D882
Film Tensile Strength at Yield, TD	12.0 MPa	1740 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	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	0.260 GPa	37.7 ksi	ASTM D882
Coefficient of Friction	0.20	0.20	ASTM D1894
Elmendorf Tear Strength, MD	4.00 g/micron	102 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	18.0 g/micron	457 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	42.0 MPa	6090 psi	ASTM D882
Film Tensile Strength at Break, TD	32.0 MPa	4640 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	96.0 °C	205 °F	ASTM D1525
Brittleness Temperature	<= -68.0 °C	<= -90.4 °F	ASTM D696

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
	@Thickness 0.0250 mm	@Thickness 0.000984 in	
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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