

NOVA Chemicals Sclair® 14G Butene LMDPE Film Resin

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

Material Notes:

Film Properties. Features: Low gel, good opacity, easy processability. Applications: Overwrap film. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-14G-Butene-LMDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.936 g/cc	0.0338 lb/in ³	ASTM D792
Moisture Vapor Transmission	0.230 cc-mm/m ² -24hr-atm	0.584 cc-mil/100 in ² -24hr-atm	ASTM D1434
Water Vapor Transmission	5.20 g/m ² /day	0.335 g/100 in ² /day	
	9.00 g/m ² /day	0.580 g/100 in ² /day	ASTM D1434
Oxygen Transmission	78.0 cc-mm/m ² -24hr-atm	198 cc-mil/100 in ² -24hr-atm	or 3100 cc/m ² -atm-24 hr per 25 μm film; 38°C; 90% RH Difference
Oxygen Transmission Rate	2300 cc/m ² /day	148 cc/100 in ² /day	ASTM D1434
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.72 g/10 min @Load 2.16 kg, Temperature 190 °C	0.72 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	17.0 MPa	2470 psi	ASTM D882
Film Tensile Strength at Yield, TD	17.0 MPa	2470 psi	ASTM D882
Film Elongation at Break, MD	600 %	600 %	ASTM D882
Film Elongation at Break, TD	900 %	900 %	ASTM D882
Secant Modulus, MD	0.390 GPa	56.6 ksi	ASTM D882
Secant Modulus, TD	0.520 GPa	75.4 ksi	ASTM D882
Coefficient of Friction	0.24	0.24	ASTM D1894
	>= 0.40	>= 0.40	ASTM D1894
Elmendorf Tear Strength, MD	1.05 g/micron	26.7 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	3.42 g/micron	86.9 g/mil	ASTM D1922

Dart Drop Mechanical Properties	1.63 g/micron Metric	41.4 g/mil English	F 50: ASTM D1709/A Comments
Film Tensile Strength at Break, MD	34.0 MPa	4930 psi	ASTM D882
Film Tensile Strength at Break, TD	39.0 MPa	5660 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D696

Optical Properties	Metric	English	Comments
Haze	20 % @Thickness 0.0250 mm	20 % @Thickness 0.000984 in	ASTM D1003
Gloss	48 %	48 %	45°; 1 mil; ASTM D1894

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

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