

NOVA Chemicals Sclair® 19A Homopolymer HDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

Film Properties.Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-19A-Homopolymer-HDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.962 g/cc	0.0348 lb/in ³	ASTM D792
Moisture Vapor Transmission	0.0300 cc-mm/m ² -24hr-atm	0.0762 cc-mil/100 in ² -24hr-atm	38 µm film; ASTM D1434
Water Vapor Transmission	0.800 g/m ² /day	0.0515 g/100 in ² /day	38 µm film;; ASTM D1434
	3.41 g/m ² /day	0.220 g/100 in ² /day	
Oxygen Transmission	41.0 cc-mm/m ² -24hr-atm	104 cc-mil/100 in ² -24hr-atm	or 1070 cc/m ² -atm-24 hr per 38 µm film; 38°C; 90% RH Difference
Oxygen Transmission Rate	1705 cc/m ² /day	109.8 cc/100 in ² /day	
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
Hardness, Shore D	69	69	ASTM D2240
Film Tensile Strength at Yield, MD	27.0 MPa	3920 psi	ASTM D882
Film Tensile Strength at Yield, TD	22.0 MPa	3190 psi	ASTM D882
Film Elongation at Break, MD	650 %	650 %	ASTM D882
Film Elongation at Break, TD	800 %	800 %	ASTM D882
Secant Modulus, MD	0.830 GPa	120 ksi	ASTM D882
Secant Modulus, TD	1.33 GPa	193 ksi	ASTM D882
Coefficient of Friction	0.30	0.30	ASTM D1894
Elmendorf Tear Strength, MD	0.550 g/micron	14.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	12.42 g/micron	315.5 g/mil	ASTM D1922

Dart Drop Mechanical Properties	0.890 g/micron Metric	22.6 g/mil English	F 50: ASTM D1709/A Comments
Film Tensile Strength at Break, MD	39.0 MPa	5660 psi	ASTM D882
Film Tensile Strength at Break, TD	22.0 MPa	3190 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	128 °C	262 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	78 %	78 %	ASTM D1003
Gloss	5.0 %	5.0 %	45°; 1 mil; ASTM D1894

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

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