

NOVA Chemicals Sclair® 19C Homopolymer HDPE Film Resin

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

Material Notes:

Film Properties. Features: Good stiffness, good barrier, high clarity, narrow MWD.Applications: Lamination, co-extrusion.Data provided by the manufacturer.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D792
Water Vapor Transmission	2.64 g/m ² /day	0.170 g/100 in ² /day	ASTM F1249
Oxygen Transmission Rate	1488 cc/m ² /day	95.83 cc/100 in ² /day	ASTM D3985
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.95 g/10 min @Load 2.16 kg, Temperature 190 °C	0.95 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ASTM D2240
Film Tensile Strength at Yield, MD	25.0 MPa	3630 psi	ASTM D882
Film Tensile Strength at Yield, TD	27.0 MPa	3920 psi	ASTM D882
Film Elongation at Break, MD	560 %	560 %	ASTM D882
Film Elongation at Break, TD	890 %	890 %	ASTM D882
Secant Modulus, MD	0.840 GPa	122 ksi	ASTM D882
Secant Modulus, TD	1.18 GPa	171 ksi	ASTM D882
Coefficient of Friction	>= 0.40	>= 0.40	ASTM D1894
Elmendorf Tear Strength, MD	0.630 g/micron	16.0 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	18.7 g/micron	475 g/mil	ASTM D1922
Dart Drop	1.16 g/micron	29.5 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	40.0 MPa	5800 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	131 °C	268 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	36 %	36 %	ASTM D1003
Gloss	23 %	23 %	45°; ASTM D2457

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

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