

## NOVA Chemicals Sclair® 19H Homopolymer HDPE Film Resin

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

### Material Notes:

Features: High stiffness Good processability Low gel Applications: Blending Co-extrusion Information provided by Nova Chemicals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Sclair-19H-Homopolymer-HDPE-Film-Resin.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-19H-Homopolymer-HDPE-Film-Resin.php)

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in <sup>3</sup>	ASTM D792
Water Vapor Transmission	4.20 g/m <sup>2</sup> /day	0.270 g/100 in <sup>2</sup> /day	
Oxygen Transmission Rate	1705 cc/m <sup>2</sup> /day	109.8 cc/100 in <sup>2</sup> /day	
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.38 g/10 min @Load 2.16 kg, Temperature 190 °C	0.38 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	26.0 MPa	3770 psi	ASTM D882
Film Tensile Strength at Yield, TD	23.0 MPa	3340 psi	ASTM D882
Puncture Energy	1.14 J	0.841 ft-lb	Low Friction Puncture
Elmendorf Tear Strength MD	18 g	18 g	ASTM D1922
Elmendorf Tear Strength TD	1800 g	1800 g	ASTM D1922
Film Tensile Strength at Break, MD	53.0 MPa	7690 psi	ASTM D882
Film Tensile Strength at Break, TD	23.0 MPa	3340 psi	ASTM D882
1% Secant Modulus, MD	829.99 MPa	120380 psi	ASTM D882
1% Secant Modulus, TD	1330 MPa	192900 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	129 °C	264 °F	ASTM D1525

Optical Properties	Metric	English	Comments
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Haze Optical Properties	81 % Metric	81 % English	ASTM D1003 Comments
Gloss	5.0 %	5.0 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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