

## NOVA Chemicals Sclair® 11H1 LLDPE Film Resin (discontinued \*\*)

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

### Material Notes:

Low gel, Excellent heat sealability, Easy processability, High toughness and strength Applications: Heavy duty sack, High strength packaging Additives: Process stabilizer, Polymer process aid, Antiblock Canada: The Health Protection Branch has indicated no objection to the sue in Canada of this resin for a variety of food packaging applications. Information on the packaging of specific foodstuffs should be obtained from NOVA Chemicals or from the Health Protection Branch, Food Packaging Materials and Incidental Additives Section, Ottawa, Canada. United States: This resin complies with the specification contained in the U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.1520 for olefin polymer, para. (c) 3.2a, and may thus be used in the United States as an article or component of an article intended for use in contact with food. Film properties are typical of blown film extruded at a blowup ratio of 2.5:1, but are dependent upon operating conditions. Information provided by NOVA Chemicals.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_NOVA-Chemicals-Sclair-11H1-LLDPE-Film-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-11H1-LLDPE-Film-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in <sup>3</sup>	ASTM D792
Thickness	25.0 - 75.0 microns	0.984 - 2.95 mil	
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.50 MPa	1380 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	640 %	640 %	ASTM D882
Film Elongation at Break, TD	770 %	770 %	ASTM D882
Secant Modulus, MD	0.190 GPa	27.6 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.200 GPa	29.0 ksi	at 1%; ASTM D882
Impact	48	48	J/mm; NOVA Chemicals Puncture test
Coefficient of Friction	0.60	0.60	ASTM D1894
Elmendorf Tear Strength, MD	20.0 g/micron	508 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	24.0 g/micron	610 g/mil	ASTM D1922
Dart Drop	7.00 g/micron	178 g/mil	F <sub>50</sub> , ASTM D1709/A

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	40.7 MPa	5900 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	1 mil; ASTM D1003
Gloss	50 %	50 %	at 45°; 1 mil; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	220 - 230 °C	428 - 446 °F	
Die Opening	0.0900 - 0.220 cm	0.0354 - 0.0866 in	

Descriptive Properties	Value	Comments
Blow Up Ratio	2:1 to 3:1	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China