

NOVA Chemicals Sclair® 11N1 PE Film Resin (discontinued **)

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

Material Notes:

Low gel, Excellent seal characteristics, Easy processability
 Applications: Premium shrink film, Co-extrusion
 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-11N1-PE-Film-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
Thickness	25.0 - 75.0 microns	0.984 - 2.95 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	10.0 MPa	1450 psi	ASTM D882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D882
Film Elongation at Break, MD	620 %	620 %	ASTM D882
Film Elongation at Break, TD	920 %	920 %	ASTM D882
Secant Modulus, MD	0.180 GPa	26.1 ksi	at 1%; ASTM D882
Secant Modulus, TD	0.200 GPa	29.0 ksi	at 1%; ASTM D882
Coefficient of Friction	>= 1.0	>= 1.0	ASTM D1894
Elmendorf Tear Strength, MD	18.0 g/micron	457 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	26.0 g/micron	660 g/mil	ASTM D1922
Dart Drop	8.00 g/micron	203 g/mil	F _{>50</sub>, ASTM D1709/A}
Film Tensile Strength at Break, MD	43.0 MPa	6240 psi	ASTM D882
Film Tensile Strength at Break, TD	36.0 MPa	5220 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	1 mil; ASTM D1003
Gloss	51 %	51 %	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	

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