

NOVA Chemicals Sclair® 99K Homopolymer HDPE Film Resin

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

Material Notes:

99K complies with the U.S. FDA specifications for olefin polymers and may thus be used in the United States as an article or component of an article intended for use in contact with food, without temperature or food-type restrictions, subject to technical suitability. NOVA Chemicals' polyethylene resins are chemically and biologically inert. Features: Excellent processability, Excellent Stretchability, High stiffness, Superior strength, Low gel. Additives: Process stabilizer, Process aid. Applications: Industrial woven bags, Tarpaulins. Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and a 35-mil die gap at a blowup ratio of 2.5:1, but are dependant on operating conditions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-99K-Homopolymer-HDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.962 g/cc	0.0348 lb/in ³	ASTM D 792
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 D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	69	69	ASTM D 2240
Film Tensile Strength at Yield, MD	27.0 MPa	3920 psi	ASTM D 882
Film Tensile Strength at Yield, TD	22.0 MPa	3190 psi	ASTM D 882
Film Tensile Strength at Break, MD	39.0 MPa	5660 psi	ASTM D 882
Film Tensile Strength at Break, TD	22.0 MPa	3190 psi	ASTM D 882
1% Secant Modulus, MD	830 MPa	120000 psi	ASTM D 882
1% Secant Modulus, TD	1330 MPa	193000 psi	ASTM D 882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	128 °C	262 °F	ASTM D 1525

Optical Properties	Metric	English	Comments
Haze	78 %	78 %	ASTM D 1003
Gloss	5.0 %	5.0 %	at 45°; ASTM D 2457

Optical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	Recommended
Blow-up Ratio (BUR)	2.5 - 4.0	2.5 - 4.0	

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