

NOVA Chemicals Surpass® FPs021-F Octene sLLDPE Film Resin, 75 Micron Film

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

Material Notes:

FPs021-F complies with the U.S. FDA regulations 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. NOVA Chemicals' polyethylene resins are biologically and chemically inert. Features: Good stiffness, Easy processability, Very good toughness and strength, Excellent seal properties, Low gel. Additives: Process stabilizer, Antiblock at 3400 ppm, Polymer process aid. Applications: Heavy duty shipping sacks requiring very good toughness and high stiffness, Industrial packaging, Industrial liners, Lamination film. Film properties are typical of blown film extruded on a 2.5" extruder with 4" die and 35-mil die gap at a blow up ratio of 2.5:1, but are dependent upon operating conditions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-FPs021-F-Octene-sLLDPE-Film-Resin-75-Micron-Film.php

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in ³	ASTM D 792
Thickness	75.0 microns	2.95 mil	As tested for properties on this data sheet
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 D 1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	ASTM D 882
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ASTM D 882
Film Elongation at Break, MD	760 %	760 %	ASTM D 882
Film Elongation at Break, TD	705 %	705 %	ASTM D 882
Elmendorf Tear Strength MD	1206 g	1206 g	ASTM D 1922
Elmendorf Tear Strength TD	1350 g	1350 g	ASTM D 1922
Elmendorf Tear Strength, MD	16.1 g/micron	409 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	18.0 g/micron	457 g/mil	ASTM D 1922
Dart Drop	12.1 g/micron	307 g/mil	ASTM D 1709/A
Dart Drop Test	909 g	2.00 lb	F50; ASTM D 1709/A
Film Tensile Strength at Break, MD	50.0 MPa	7250 psi	ASTM D 882
Film Tensile Strength at Break, TD	46.0 MPa	6670 psi	ASTM D 882

Mechanical Properties	Metric	English	Comments
1% Secant Modulus, MD	182 MPa	26400 psi	ASTM D 882
1% Secant Modulus, TD	201 MPa	29200 psi	ASTM D 882

Optical Properties	Metric	English	Comments
Haze	22 %	22 %	ASTM D 1003
Gloss	44 %	44 %	At 45°; ASTM D 2457

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

Descriptive Properties	Value	Comments
Low Friction Puncture	44 (J/mm)	NOVA Chemicals test method

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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