

## NOVA Chemicals Surpass® FPs021-F Octene sLLDPE Film Resin, 25 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-25-Micron-Film.php](http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-FPs021-F-Octene-sLLDPE-Film-Resin-25-Micron-Film.php)

Physical Properties	Metric	English	Comments
Density	0.921 g/cc	0.0333 lb/in <sup>3</sup>	ASTM D 792
Thickness	25.0 microns	0.984 mil	As tested for properties on this data sheet
	25.0 - 150 microns	0.984 - 5.91 mil	Recommended range for processing
Melt Flow	0.80 g/10 min	0.80 g/10 min	ASTM D 1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	9.00 MPa	1310 psi	ASTM D 882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D 882
Film Elongation at Break, MD	520 %	520 %	ASTM D 882
Film Elongation at Break, TD	700 %	700 %	ASTM D 882
Elmendorf Tear Strength MD	290 g	290 g	ASTM D 1922
Elmendorf Tear Strength TD	490 g	490 g	ASTM D 1922
Elmendorf Tear Strength, MD	11.6 g/micron	295 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	19.6 g/micron	498 g/mil	ASTM D 1922
Dart Drop	20.5 g/micron	521 g/mil	ASTM D 1709/A
Dart Drop Test	512 g	1.13 lb	F50; ASTM D 1709/A
Film Tensile Strength at Break, MD	50.0 MPa	7250 psi	ASTM D 882

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	42.0 MPa	6000 psi	ASTM D 882
1% Secant Modulus, MD	174 MPa	25200 psi	ASTM D 882
1% Secant Modulus, TD	188 MPa	27300 psi	ASTM D 882

Optical Properties	Metric	English	Comments
Haze	21 %	21 %	ASTM D 1003
Gloss	33 %	33 %	At 45°; ASTM D 2457

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	Recommended
Die Opening	0.0889 - 0.203 cm	0.0350 - 0.0800 in	Recommended range

Descriptive Properties	Value	Comments
Low Friction Puncture	53 (J/mm)	NOVA Chemicals test method

## Contact Songhan Plastic Technology Co.,Ltd.

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