

NOVA Chemicals Surpass® HPs167-AB Homopolymer sHDPE Film Resin

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

Material Notes:

HPs167-AB 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: Superior barrier properties, Very high stiffness, Low gel. Additives: Antioxidant. Applications: Moisture barrier films, Co-extrusion, Dry food packaging. 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 2:1, but are dependent upon operating conditions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Surpass-HPs167-AB-Homopolymer-sHDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.966 g/cc	0.0349 lb/in ³	ASTM D 792
Moisture Vapor Transmission	0.00418 cc-mm/m ² -24hr-atm @Temperature 38.0 °C	0.0106 cc-mil/100 in ² -24hr-atm @Temperature 100 °F	100% RH; ASTM F 1249
Oxygen Transmission	1.767 cc-mm/m ² -24hr-atm	4.488 cc-mil/100 in ² -24hr-atm	0% RH; ASTM D 3985
Thickness	38.0 microns	1.50 mil	As tested for properties on this data sheet
	25.0 - 75.0 microns	0.984 - 2.95 mil	Recommended range for processing
Melt Flow	1.2 g/10 min @Load 2.16 kg, Temperature 190 °C	1.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	27.0 MPa	3920 psi	ASTM D 882
Film Tensile Strength at Yield, TD	25.0 MPa	3630 psi	ASTM D 882
Elmendorf Tear Strength MD	22 g	22 g	ASTM D 1922
Elmendorf Tear Strength TD	225 g	225 g	ASTM D 1922
Elmendorf Tear Strength, MD	0.580 g/micron	14.7 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	5.90 g/micron	150 g/mil	ASTM D 1922
1% Secant Modulus, MD	1100 MPa	160000 psi	ASTM D 882
1% Secant Modulus, TD	1335 MPa	193600 psi	ASTM D 882

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 230 °C	392 - 446 °F	Recommended
Die Opening	0.127 - 0.254 cm	0.0500 - 0.100 in	Recommended range
Blow-up Ratio (BUR)	1.5 - 3.0	1.5 - 3.0	Optimum range

Descriptive Properties	Value	Comments
Low Friction Puncture	19 (J/mm)	NOVA Chemicals test method

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