NOVA Chemicals Sclair® 17A Butene HDPE Film Resin

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

Material Notes:

17A 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: Low gel, Good processabilityAdditives: Process stabilizerApplications: Co-extrusions, BlendingProperties measured from film produced on a laboratory extruder with a 4 inch die, 35 mil die gap, and a BUR of 2.5:1

Order this product through the following link:
http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-17A-Butene-HDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in³	ASTM D 792
Oxygen Transmission Rate	1920 cc/m²/day	124 cc/100 in²/day	0% RH; ASTM D 1434
Thickness	38.0 microns	1.50 mil	
Melt Flow	0.45 g/10 min @Load 2.16 kg, Temperature 190 °C	0.45 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	ASTM D 2240
Film Tensile Strength at Yield, MD	22.0 MPa	3190 psi	ASTM D 882
Film Tensile Strength at Yield, TD	20.0 MPa	2900 psi	ASTM D 882
Film Elongation at Break, MD	650 %	650 %	ASTM D 882
Film Elongation at Break, TD	750 %	750 %	ASTM D 882
Coefficient of Friction	0.24	0.24	ASTM D 1894
Elmendorf Tear Strength MD	22 g	22 g	ASTM D 1922
Elmendorf Tear Strength TD	875 g	875 g	ASTM D 1922
Elmendorf Tear Strength, MD	0.600 g/micron	15.2 g/mil	ASTM D 1922
Elmendorf Tear Strength, TD	23.0 g/micron	584 g/mil	
Dart Drop Test	40.0 g	0.0882 lb	1.1; ASTM D 1709/A
Film Tensile Strength at Break, MD	45.0 MPa	6530 psi	ASTM D 882

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ASTM D 882
1% Secant Modulus, MD	630 MPa	91400 psi	ASTM D 882
1% Secant Modulus, TD	900 MPa	131000 psi	ASTM D 882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D 1525

Descriptive Properties	Value	Comments
Low Friction Puncture (J/mm)	23	NOVA Chemicals Test Method
Moisture Vapor Transmission Rate (g/m²/24h)	4	At 38°C, 100% RH

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