

LyondellBasell Petrothene® NA967000 Low Density Polyethylene, Film Extrusion Grade

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Blow Molding Grade

Material Notes:

Petrothene NA967000 is a low density polyethylene resin designed for blown film, general purpose and industrial packaging applications. NA967000 exhibits good processing characteristics and impact strength. Regulatory Status: NA967000 meets the requirements of the Food and Drug Administration, 21 CFR 177.1520. This regulation allows the use of this olefin polymer "...in articles or components of articles intended for use in contact with food," except in cooking applications. Specific limitations or conditions of use do apply. Contact your Equistar sales representative for more information. Specific recommendations for processing NA967000 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA967000-Low-Density-Polyethylene-Film-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	31.8 microns	1.25 mil	
Melt Flow	1.5 g/10 min	1.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	molding; ASTM D2240
Tensile Strength at Break	10.3 MPa	1500 psi	molding; ASTM D638
Film Elongation at Break, MD	220 %	220 %	ASTM D882
Film Elongation at Break, TD	520 %	520 %	ASTM D882
Elongation at Break	600 %	600 %	molding; ASTM D638
Elmendorf Tear Strength MD	390 g	390 g	ASTM D1922
Elmendorf Tear Strength TD	100 g	100 g	ASTM D1922
Dart Drop	4.72 g/micron	120 g/mil	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	24.8 MPa	3600 psi	ASTM D882
Film Tensile Strength at Break, TD	17.9 MPa	2600 psi	ASTM D882
1% Secant Modulus, MD	179 MPa	26000 psi	ASTM D882
1% Secant Modulus, TD	228 MPa	33000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 Å°C	194 Å°F	molding; ASTM D1525
Brittleness Temperature	<= -76.0 Å°C	<= -105 Å°F	molding; ASTM D746
	0.500 Å°C	32.9 Å°F	molding, notched; ASTM D746

Processing Properties	Metric	English	Comments
Melt Temperature	177 Å°C	350 Å°F	
Die Opening	0.0635 cm	0.0250 in	
Blow-up Ratio (BUR)	2.0	2.0	

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