

LyondellBasell Petrothene® NA942000 Low Density Polyethylene, Film Extrusion Grade

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

Material Notes:

PETROTHENE NA942 is a series of resins designed especially for heavy duty film applications, such as bags used to package fertilizer, peat moss, decorative stone and agricultural and construction materials. NA942 exhibits excellent impact properties and puncture resistance.

Regulatory Status: The basic resin NA942 meets the requirements of the Food and Drug Administration regulation, 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." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for further information regarding the suitability of specific products for specific applications. Generally recommended extrusion conditions include a melt temperature range of 330°F-430°F (165°C- 221°C); a blow-up ratio range of 1.8-2.5:1. Drawdown to 2.0 mils (51 microns) is possible at commercial rates when proper extrusion techniques are used. Specific recommendations for processing NA942 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-NA942000-Low-Density-Polyethylene-Film-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D1505
ESCR 100% Igepal®	168 hour	168 hour	no failures; molding; ASTM D1693
Thickness	50.8 microns	2.00 mil	
Melt Flow	0.18 g/10 min	0.18 g/10 min	ASTM D1238
Antiblock Level	0.000 ppm	0.000 ppm	
Slip Level	0.000 ppm	0.000 ppm	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	42	42	molding; ASTM D2240
Tensile Strength at Break	17.9 MPa	2600 psi	molding; ASTM D638
Tensile Strength, Yield	9.65 MPa	1400 psi	molding; ASTM D638
Film Elongation at Break, MD	300 %	300 %	ASTM D882
Film Elongation at Break, TD	450 %	450 %	ASTM D882
Elongation at Break	750 %	750 %	molding; ASTM D638
Elongation at Yield	100 %	100 %	molding; ASTM D638

Dart Drop Mechanical Properties	4.33 g/micron Metric	110 g/mil English	F₅₀; ASTM D1709 Comments
Film Tensile Strength at Break, MD	20.7 MPa	3000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 Â°C	<= -103 Â°F	F₅₀; molding; ASTM D746

Processing Properties	Metric	English	Comments
Melt Temperature	221 Â°C	430 Â°F	
Die Opening	0.0635 cm	0.0250 in	
Blow-up Ratio (BUR)	2.0	2.0	

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