

LyondellBasell Petrothene® NA951000 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA 951 is a series of homopolymer resins specially designed for industrial and consumer packaging and liner and bag applications. NA 951 has an excellent balance of processability, toughness and drawdown. **Regulatory Status**The basic resin NA 951 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 more information. **Processing Techniques**Specific recommendations for processing NA 951 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.**Physical Properties**These are typical values and not to be construed as specific product limits. Data obtained from film produced in a 3.5"(89mm) blown film line, commercially available 8"(203 mm)die, 375°F(191°C) melt extrusion temperature, 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025"die gap at 130 lb/hr.This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA951000-Low-Density-Polyethylene.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	2:1 BUR; 25 mil die gap
Melt Flow	2.2 g/10 min	2.2 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	13.6 MPa	1970 psi	Molded; ASTM D638
Film Elongation at Break, MD	250 %	250 %	ASTM D882
Film Elongation at Break, TD	520 %	520 %	ASTM D882
Elongation at Break	600 %	600 %	Molded; ASTM D638
Elmendorf Tear Strength MD	320 g	320 g	ASTM D1922
Elmendorf Tear Strength TD	100 g	100 g	ASTM D1922
Dart Drop Test	100 g	0.221 lb	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	24.8 MPa	3600 psi	ASTM D882
Film Tensile Strength at Break, TD	17.2 MPa	2500 psi	ASTM D882
1% Secant Modulus, MD	197 MPa	28500 psi	ASTM D882
1% Secant Modulus, TD	228 MPa	33000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 Â°C	194 Â°F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	177 Â°C	350 Â°F	

Descriptive Properties	Value	Comments
Antiblock	None	
Slip	None	

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