

LyondellBasell Petrothene® NA336149 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA 336 is a homopolymer resin specifically engineered for garment film and dry cleaning bag applications. This resin is also suitable for any application requiring thin gauge film constructions. NA 336 is know for its consistency, exceptional drawdown and processability. **Regulatory Status**NA 336 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 TechniquesNA 336 is specifically designed to provide outstanding drawdown at maximum outputs. The melt strength properties of this resin result in excellent bubble stability. This resin can be processes over a wide range of temperatures; however, recommended conditions are melt temperatures between 300°-330°F and a blow-up ratio between 2.0-2.5:1. Using proper techniques and equipment, drawdown to 0.25 mil is feasible at commercial production rates. Specific recommendations for processing NA 336 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.
Physical PropertiesThese 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)This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA336149-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D1505
Thickness	31.8 microns	1.25 mil	2.2:1 BUR
Melt Flow	6.5 g/10 min	6.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	225 %	225 %	ASTM D882
Film Elongation at Break, TD	450 %	450 %	ASTM D882
Elmendorf Tear Strength MD	350 g	350 g	ASTM D1922
Elmendorf Tear Strength TD	150 g	150 g	ASTM D1922
Dart Drop Test	90.0 g	0.198 lb	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	17.2 MPa	2500 psi	ASTM D882
Film Tensile Strength at Break, TD	13.9 MPa	2020 psi	ASTM D882
1% Secant Modulus, MD	146 MPa	21200 psi	ASTM D882
1% Secant Modulus, TD	165 MPa	24000 psi	ASTM D882

Mechanical Properties	Metric	English	Comments
Vicat Softening Point	85.0 Â°C	185 Â°F	ASTM D1525

Thermal Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ASTM D1003
Gloss	62 %	62 %	at 45Â°; ASTM D2457

Optical Properties	Metric	English	Comments
Melt Temperature	163 Â°C	325 Â°F	

Processing Properties	Metric	English	Comments
Antiblock		High	
Slip		High	

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