

LyondellBasell Petrothene® NA334000 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA 334-000 is a homopolymer resin specifically engineered for thin film applications. NA 334-000 is know for its consistency, exceptional drawdown and processability. Regulatory StatusNA 334-000 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 334-000 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 334-000 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.**Other Information**No slip, no antiblock.**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)This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA334000-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	2.2:1 BUR
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	300 %	300 %	ASTM D882
Film Elongation at Break, TD	450 %	450 %	ASTM D882
Dart Drop Test	65.0 g	0.143 lb	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	15.2 MPa	2200 psi	ASTM D882
Film Tensile Strength at Break, TD	13.8 MPa	2000 psi	ASTM D882
1% Secant Modulus, MD	138 MPa	20000 psi	ASTM D882
1% Secant Modulus, TD	159 MPa	23000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	12 %	12 %	ASTM D1003

Gloss Optical Properties	50 % Metric	50 % English	at 45Å°: ASTM D2457 Comments
Processing Properties	Metric	English	Comments
Melt Temperature	163 Å°C	325 Å°F	

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