

LyondellBasell Petrothene® NA340013 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA 340 is a LDPE/EVA copolymer resin designed for quality bags and special film applications requiring clarity and excellent impact strength. Typical applications include heavy produce, textile and frozen food packaging.**Regulatory Status**NA 340 meets the requirements of the Food and Drug Administration regulation 21 CFR 177.1350. This regulation allows the use of this ethylene vinyl acetate copolymer "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**NA 340 is processed readily by standard blown film extrusion techniques. A processing melt temperature of 300°-375°F is suggested for this resin. Specific recommendations for the processing of NA 340 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-NA340013-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Vinyl Acetate Content	4.0 %	4.0 %	
Thickness	31.8 microns	1.25 mil	2:1 BUR; 25 mil die gap
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	340 %	340 %	ASTM D882
Film Elongation at Break, TD	500 %	500 %	ASTM D882
Elmendorf Tear Strength MD	180 g	180 g	ASTM D1922
Elmendorf Tear Strength TD	250 g	250 g	ASTM D1922
Dart Drop Test	140 g	0.309 lb	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	25.5 MPa	3700 psi	ASTM D882
Film Tensile Strength at Break, TD	21.4 MPa	3100 psi	ASTM D882
1% Secant Modulus, MD	145 MPa	21000 psi	ASTM D882
1% Secant Modulus, TD	165 MPa	24000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
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Haze	4.0 %	4.0 %	(NA 340-141 - high slip, medium antiblock); ASTM D1003
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Gloss	75 %	75 %	at 45° (NA 340-141 - high slip, medium antiblock); ASTM D2457
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Processing Properties	Metric	English	Comments
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Melt Temperature	191 °C	375 °F	
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Descriptive Properties	Value	Comments
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Antiblock	None	
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Slip	None	
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China