

LyondellBasell Petrothene® NA420127 Low Density Polyethylene (discontinued **)

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

Material Notes:

ApplicationsPETROTHENE NA 420 is a LDPE/EVA copolymer resin for high impact and clarity packaging film. This resin exhibits excellent processability over a broad range of extrusion conditions. Well-balance films with excellent optics, good stiffness and strong heat sealing characters can be produced from this resin. **Regulatory Status**NA 420 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 420 has excellent drawdown characteristics that yield outstanding output rates.

Recommended extrusion conditions are 330°-380°F (166°-194°C) melt temperatures and a blow-up ratio between 1.7-3.0:1. Specific recommendations for the processing of NA 420 can be made only wThis product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA420127-Low-Density-Polyethylene-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	ASTM D1505
Vinyl Acetate Content	2.5 %	2.5 %	
Thickness	31.8 microns	1.25 mil	2:1 BUR; 25 mil die gap
Melt Flow	2.5 g/10 min	2.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	350 %	350 %	ASTM D882
Film Elongation at Break, TD	550 %	550 %	ASTM D882
Elmendorf Tear Strength MD	220 g	220 g	ASTM D1922
Elmendorf Tear Strength TD	250 g	250 g	ASTM D1922
Dart Drop Test	80.0 g	0.176 lb	F₅₀; ASTM D1709
Film Tensile Strength at Break, MD	22.8 MPa	3300 psi	ASTM D882
Film Tensile Strength at Break, TD	16.5 MPa	2400 psi	ASTM D882
1% Secant Modulus, MD	138 MPa	20000 psi	ASTM D882
1% Secant Modulus, TD	172 MPa	25000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Vicat Softening Point Thermal Properties	90.0 °C Metric	194 °F English	ASTM D1525 Comments
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Optical Properties	Metric	English	Comments
Haze	4.5 %	4.5 %	Optical properties are given for NA 420-127 (medium-slip, medium antiblock).; ASTM D1003
Gloss	73 %	73 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	191 °C	375 °F	

Descriptive Properties	Value	Comments
Antiblock	Medium	
Slip	Medium	

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