LyondellBasell PetrotheneÂ® NA420000 Low Density Polyethylene

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 StatusNA 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 "â€¦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 420 has excellent drawdown characteristics that yield outstanding output rates. Recommended extrusion conditions are 330Â°-380Â°F (166Â°-194Â°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 when the end use application, required properties and the processing equipment are known. For exact recommendations, please contact your Equistar 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, 375Â°F(191Â°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-NA420000-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/inÂ³	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			ASTM D882

Mechanical Properties	Metric	English	Comments
	172 MPa	25000 psi	

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

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 45Â°; ASTM D2457

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

Descriptive Properties	Value	Comments
Antiblock	None	
Slip	None	

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