

LyondellBasell Petrothene® NA480178 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA 480 is a series of low density/EVA copolymer resins designed for specialty films. NA 480 produces film with superior puncture resistance, Heat sealability, clarity and low temperature flexibility. Applications include ice bags, frozen food packaging, bundling and heavy-duty bags. **Regulatory Status**NA 480 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 480 has been designed to provide excellent processability over a wide range of extrusion conditions. However, optimum properties are produced at temperatures of 330°-430°F with a blow-up ratio between 1.7-4.0:1. Drawdown to 1.25 mils is not uncommon at commercial rates when properThis product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA480178-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.923 g/cc	0.0333 lb/in ³	ASTM D1505
Vinyl Acetate Content	4.5 %	4.5 %	
Thickness	50.8 microns	2.00 mil	2:1 BUR; 25 mil die gap
Melt Flow	0.25 g/10 min	0.25 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	370 %	370 %	ASTM D882
Film Elongation at Break, TD	550 %	550 %	ASTM D882
Elmendorf Tear Strength MD	150 g	150 g	ASTM D1922
Elmendorf Tear Strength TD	250 g	250 g	ASTM D1922
Dart Drop Test	320 g	0.706 lb	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	22.1 MPa	3200 psi	ASTM D882
Film Tensile Strength at Break, TD	20.7 MPa	3000 psi	ASTM D882
1% Secant Modulus, MD	131 MPa	19000 psi	ASTM D882
1% Secant Modulus, TD	159 MPa	23000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	88.0 °C	190 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	221 Â°C	430 Â°F	

Descriptive Properties	Value	Comments
Antiblock	High	
Slip	None	

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