LyondellBasell PetrotheneÂ® NA960000 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA960 is a series of resins designed for a wide variety of industrial film applications where high impact strength and excellent drawdown are needed. NA960 exhibits good uniformity, ease of processing and good tensile strength. Regulatory StatusThe basic resin NA960 meets the requirements of the Food and Drug Administration regulation, 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "â€¦articles or components of articles intended for use in contact with foodâ€¦" Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information. Processing TechniquesSpecific recommendations for processing NA960 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative.Physical PropertiesThese are typical values and not to be construed as specific product limits. Data obtained from film produced in a 3.5" (98 mm)blown film line, commercially available 8"(203 mm) die, 350Â°F(177Â°C) melt extrusion temperature, 2:1 BUR, 1.25 mil(32 micron)gauge, 0.025" die gap at 150 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-NA960000-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/inÂ³	ASTM D1505
Thickness	31.8 microns	1.25 mil	2:1 BUR; 25 mil die gap
Melt Flow	0.90 g/10 min	0.90 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	14.5 MPa	2100 psi	Data derived from type IV specimen, 75 mil plaque @ 20" min.; ASTM D638
Film Elongation at Break, MD	200 %	200 %	ASTM D882
Film Elongation at Break, TD	500 %	500 %	ASTM D882
Elongation at Break	660 %	660 %	Molded; ASTM D638
Elmendorf Tear Strength MD	300 g	300 g	ASTM D1922
Elmendorf Tear Strength TD	130 g	130 g	ASTM D1922
Dart Drop Test	120 g	0.265 lb	F₅₀; ASTM D1709
Film Tensile Strength at Break, MD	24.1 MPa	3500 psi	ASTM D882
Film Tensile Strength at Break, TD	16.5 MPa	2400 psi	ASTM D882
1% Secant Modulus, MD	200 MPa	29000 psi	ASTM D882
1% Secant Modulus, TD	234 MPa	34000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 Â°C	198 Â°F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	177 Â°C	350 Â°F	

Descriptive Properties	Value	Comments
Antiblock	None	
Slip	None	

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