LyondellBasell PetrotheneÂ® NA285003 Medium Density Polyethylene

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Film Grade

Material Notes:

ApplicationsPETROTHENE NA 285-003 is a medium density polyethylene resin for blown or cast film extrusion. Typical applications include overwrap film. This product exhibits good film optics and high stiffness. Regulatory StatusNA 285-003 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 NA 285-003 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. Film gauge: 1.25 mils.This product is from the former Equistar product line.

Order this product through the following link:
http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA285003-Medium-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/inÂ³	ASTM D1505
Thickness	31.8 microns	1.25 mil	
Melt Flow	6.2 g/10 min	6.2 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	600 %	600 %	ASTM D882
Dart Drop Test	60.0 g	0.132 lb	F₅₀; ASTM D1709
Film Tensile Strength at Break, MD	30.3 MPa	4400 psi	ASTM D882
Film Tensile Strength at Break, TD	29.0 MPa	4200 psi	ASTM D882
1% Secant Modulus, MD	262 MPa	38000 psi	ASTM D882
1% Secant Modulus, TD	296 MPa	43000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	65 %	65 %	at 45Â°; ASTM D2457

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