

LyondellBasell Petrothene® NA272130 Medium Density Polyethylene, Film Extrusion Grade

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

Material Notes:

PETROTHENE NA272130 is a medium density polyethylene resin designed for overwrap film applications. NA272130 exhibits good film optics and high stiffness. Regulatory Status: NA272130 meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1520. This regulation allows the use of this olefin polymer "...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. Specific recommendations for processing NA272130 can only be made when the processing conditions, equipment and end use are known. For further suggestions, please contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA272130-Medium-Density-Polyethylene-Film-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	0.930 g/cc	0.0336 lb/in ³	ASTM D1505
Thickness	31.8 microns	1.25 mil	
Melt Flow	1.6 g/10 min	1.6 g/10 min	ASTM D1238
Antiblock Level	1000 ppm	1000 ppm	
Slip Level	300 ppm	300 ppm	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	400 %	400 %	ASTM D882
Film Elongation at Break, TD	500 %	500 %	ASTM D882
Dart Drop	1.57 g/micron	40.0 g/mil	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	24.1 MPa	3500 psi	ASTM D882
Film Tensile Strength at Break, TD	20.7 MPa	3000 psi	ASTM D882
1% Secant Modulus, MD	331 MPa	48000 psi	ASTM D882
1% Secant Modulus, TD	379 MPa	55000 psi	ASTM D882

Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	90 %	90 %	60°; ASTM D523

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