

LyondellBasell Petrothene® NA350136 Low Density Polyethylene

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

Material Notes:

ApplicationsPETROTHENE NA 350-136 is a low density/EVA copolymer designed for heavy duty film packaging and other high strength, easy to seal packaging. NA 350-136 exhibits high impact strength and good low temperature toughness. It contains Medium levels of Slip and High levels of Antiblock.**Regulatory Status**The base resin NA 350-136 meets the requirements of the Food and Drug Administration, regulation 21 CFR 177.1350. 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 use may apply.**Processing**Specific recommendations for processing NA 350-136 can only be made when the processing conditions, equipment and end use are known.This product is from the former Equistar product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA350136-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.926 g/cc	0.0335 lb/in ³	ASTM D1505
Vinyl Acetate Content	6.6 %	6.6 %	
Thickness	31.8 microns	1.25 mil	2:1 BUR
Melt Flow	1.2 g/10 min	1.2 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	190 %	190 %	ASTM D882
Film Elongation at Break, TD	470 %	470 %	ASTM D882
Elmendorf Tear Strength MD	107 g	107 g	ASTM D1922
Elmendorf Tear Strength TD	83 g	83 g	ASTM D1922
Dart Drop Test	285 g	0.628 lb	F ₅₀ ; ASTM D1709
Film Tensile Strength at Break, MD	22.4 MPa	3250 psi	ASTM D882
Film Tensile Strength at Break, TD	19.0 MPa	2750 psi	ASTM D882
1% Secant Modulus, MD	138 MPa	20000 psi	ASTM D882
1% Secant Modulus, TD	159 MPa	23000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Vicat Softening Point	87.0 Å°C	189 Å°F	ASTM D1525
Brittleness Temperature	<= -76.0 Å°C	<= -105 Å°F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D1003
Gloss	55 %	55 %	45°; ASTM D2457

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

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