

LyondellBasell Petrothene® NA340212 Low Density Polyethylene, Film Extrusion Grade

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

PETROTHENE NA340 is a series of LDPE/EVA copolymer resins designed for quality bags and special film applications that require clarity and excellent impact strength. Typical applications include heavy produce, textile and frozen food packaging. No Slip, High Antiblock. Regulatory Status: NA340 resins meet 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 further information. NA340 resins are processed readily by standard blown film extrusion techniques. A processing melt temperature of 330°-375°F (165°-191°C) is suggested for this resin. Specific recommendations for the processing of NA 340 can only be made when the processing conditions, equipment and end use are known. For further suggestions, 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-NA340212-Low-Density-Polyethylene-Film-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Vinyl Acetate Content	4.0 %	4.0 %	
Thickness	31.8 microns	1.25 mil	
Melt Flow	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Slip Level	0.000 ppm	0.000 ppm	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	340 %	340 %	ASTM D882
Film Elongation at Break, TD	500 %	500 %	ASTM D882
Elmendorf Tear Strength MD	180 g	180 g	ASTM D1922
Elmendorf Tear Strength TD	250 g	250 g	ASTM D1922
Dart Drop	4.41 g/micron	112 g/mil	F _{>50} ; ASTM D1709
Film Tensile Strength at Break, MD	25.5 MPa	3700 psi	ASTM D882
Film Tensile Strength at Break, TD	21.4 MPa	3100 psi	ASTM D882
1% Secant Modulus, MD	145 MPa	21000 psi	ASTM E111
1% Secant Modulus, TD	165 MPa	24000 psi	ASTM E111

Thermal Properties	Metric	English	Comments
Vicat Softening Point	95.0 Â°C	203 Â°F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
Gloss	75 %	75 %	45Â°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	191 Â°C	375 Â°F	
Die Opening	0.0635 cm	0.0250 in	
Blow-up Ratio (BUR)	2.0	2.0	

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