Petrothene® NA345

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 345 is a series of homopolymer resins that combine premium clarity with strength and stiffness. In addition, NA 345 exhibits good impact strength on both flat and creased film. NA 345 is recommended for textile packaging, light produce, bread bags and other thin packaging films enhanced by clarity and sparkle. The optical values of NA 345 actually improve with decreases in film gauge and are maintained at wide die gap settings. This fact leads to important cost savings. Film can be drawn down to a minimum gauge consistent with required physical properties, with the assurance that optical properties will not suffer, but improve. With wider die gaps back pressures are reduced, as are extrusion costs.

General Information			
Features	Food Contact Acceptable Good Impact Resistance High Clarity High Stiffness High Strength Homopolymer		
Uses	Bags Film Packaging		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.921	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	32	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 32 µm	179	MPa	
1% Secant, TD : 32 µm	207	MPa	
Tensile Strength			ASTM D882
MD : Yield,32 µm	11.0	MPa	
MD : Break, 32 µm	27.6	MPa	
TD : Break, 32 µm	23.4	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm	300	%	
TD : Break, 32 µm	500	%	
Dart Drop Impact (32 µm)	90	g	ASTM D1709

Elmendorf Tear Strength			ASTM D1922
MD : 32 μm	360	g	
TD : 32 μm	200	g	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	100	°C	ASTM D1525

Recommended distributors for this material

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