Petrothene® NA345196

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA345 is a series of homopolymer resins that combine premium clarity with strength and stiffness. In addition, NA345 exhibits good impact strength on both flat and creased film. NA345 is recommended for textile packaging, light produce, bread bags and other thin packaging films enhanced by clarity and sparkle.

General Information			
Additive	Anti-caking agent (1500 ppm) Sliding agent (750 ppm)		
Features	Rigidity, high High strength Homopolymer Impact resistance, good Definition, high Compliance of Food Exposure Moderate caking resistance Moderate smoothness		
Uses	Packaging Thin wall packaging Films Bags		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
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, blown film	179	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm, blown film	10.3	MPa	ASTM D882
TD: Yield, 32 µm, blown film	11.0	MPa	ASTM D882

MD: Broken, 32 µm, blown film	27.6	MPa	ASTM D882
TD: Broken, 32 µm, blown film	23.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm, blown film	300	%	ASTM D882
TD: Broken, 32 µm, blown film	500	%	ASTM D882
Dart Drop Impact (32 µm, Blown Film)	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 32 µm, blown film	360	g	ASTM D1922
TD: 32 µm, blown film	200	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	100	°C	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 31.8 µm, Blown Film)	70		ASTM D2457
Haze (31.8 µm, blow molding)	5.0	%	ASTM D1003

Additional Information

Film data obtained from film produced on a 3½" (89 mm) blown film line, commercially available 8" (203 mm) die, 375°F (191°C) melt extrusion temperature 2:1 BUR, 1.25 mil (32 micron) gauge, 0.025" die gap at 130 lb/hr.

Recommended distributors for this material

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