

Petrothene® NA345184

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)		
Features	Rigidity, high		
	High strength		
	Homopolymer		
	Anti-caking property		
	Impact resistance, good		
	Definition, high		
Uses	Compliance of Food Exposure		
	Packaging		
	Thin wall packaging		
	Films		
Agency Ratings	Bags		
	FDA 21 CFR 177.1520		
	Particle		
	Film extrusion		
Forms	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	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
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.

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