Petrothene® NA336149

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA336 is a series of homopolymer resins selected by customers for applications that require thin gauge film constructions. NA336 resins are known for their consistency, excellent drawdown and processability.

General Information			
Additive	Anti-caking agent (4000 ppm) Slip agent (1350 ppm)		
Features	smoothness Homopolymer Anti-caking property Workability, good Good stripping Compliance of Food Exposure		
Uses	Films Bags		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.920	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.5	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	146	MPa	ASTM D882
1% secant, TD: 32 µm, blown film	165	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm, blown film	17.2	MPa	ASTM D882
TD: Yield, 32 µm, blown film	13.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm, blown film	230	%	ASTM D882
TD: Broken, 32 µm, blown film	450	%	ASTM D882
Dart Drop Impact (32 µm, Blown Film)	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922

MD: 32 µm, blown film	350	g	ASTM D1922
TD: 32 µm, blown film	150	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 µm, Blown Film)	62		ASTM D2457
Haze (31.8 µm, Blown Film)	8.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	149 - 166	°C	

Extrusion instructions

NA 336 has been specifically designed to provide outstanding drawdown at maximum outputs. The melt strength properties of this resin result in excellent bubble stability. This resin can be processed over a wide range of temperatures; however, recommended conditions are melt temperatures between 300°- 330°F (149°-166°C) and a blow-up ratio between 2.0-2.5:1. Using proper techniques and equipment, drawdown to 0.25 mil (6 microns) is feasible at commercial production rates.

Recommended distributors for this material

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