Petrothene® NA443 (Blown)

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 443 is a series of low density/EVA copolymer resins for high impact/high clarity packaging applications. NA 443 exhibits excellent processability and good balance of optics, stiffness and strong heat sealing characteristics.

General Information	
Features	Rigid, good
	Copolymer
	Optical
	Impact resistance, high
	Workability, good
	Good heat sealability
	Definition, high
	Compliance of Food Exposure
Uses	Packaging
Agency Ratings	FDA 21 CFR 177.1350
Forms	Particle
Processing Method	Film extrusion
	Blow film
	cast film

Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Vinyl Acetate Content	4.5	wt%	
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	32	µm	
secant modulus			ASTM D882
1% secant, MD: 32 µm	138	MPa	ASTM D882
1% secant, TD: 32 µm	124	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm	27.6	MPa	ASTM D882
TD: Yield, 32 µm	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm	350	%	ASTM D882
TD: Broken, 32 µm	550	%	ASTM D882
Dart Drop Impact (32 µm)	150	g	ASTM D1709

Elmendorf Tear Strength - MD (32 µm)	140	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	88.0	°C	ASTM D1525
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	166 - 193	°C	

Extrusion instructions

NA 443 has excellent drawdown characteristics that yield outstanding output rates. Optimum properties are obtained over a broad range of extrusion conditions at melt temperatures between 330°-380°F (166°-194°C), and a blow-up ratio between 1.7-3.0:1. Using proper techniques and equipment, NA 443 can be drawn to 1.0 mil (19 microns) at commercial production rates.

Recommended distributors for this material

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