Petrothene® NA442

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 442 is a series of low density/EVA copolymer resins for high impact/high clarity packaging and lamination applications. NA 442 exhibits excellent processability and good balance of optics and strong heat sealing characteristics.

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

Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.5	g/10 min	ASTM D1238
Vinyl Acetate Content	5.0	wt%	
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	32	µm	
Secant Modulus - 1% Secant, MD (32 µm)	131	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm	24.8	MPa	ASTM D882
TD: Yield, 32 µm	19.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 µm	320	%	ASTM D882
TD: Broken, 32 µm	550	%	ASTM D882
Dart Drop Impact (32 µm)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 32 µm	160	g	ASTM D1922

TD : 32 µm	180	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	88.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 µm)	75		ASTM D2457
Haze (31.8 µm)	4.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	166 - 193	°C	

Extrusion instructions

NA 442 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 442 can be drawn to 1.0 mil (19 microns) at commercial production rates.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China