

Petrothene® NA443023 (Blown)

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA443 is a series of LDPE/EVA copolymer resins selected by customers for high impact/high clarity packaging applications.

General Information	
Features	Copolymer
	Food Contact Acceptable
	High Clarity
	High Impact Resistance
Uses	Packaging
Agency Ratings	FDA 21 CFR 177.1350
Forms	Pellets
Processing Method	Blown Film
	Cast Film
	Film Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.927	g/cm ³	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	
1% Secant, TD : 32 µm	124	MPa	
Tensile Strength			ASTM D882
MD : Yield,32 µm	27.6	MPa	
TD : Yield,32 µm	20.0	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm	350	%	
TD : Break, 32 µm	550	%	
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
Optical	Nominal Value	Unit	Test Method

Gloss (45°, 31.8 μm)	77		ASTM D2457
Haze (31.8 μm)	3.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	166 to 193	°C	

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