

Petrothene® NA443023 (Cast)

Low Density Polyethylene + EVA

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	152	MPa	
1% Secant, TD : 32 µm	200	MPa	
Tensile Strength			ASTM D882
MD : Yield,32 µm	36.5	MPa	
TD : Yield,32 µm	18.6	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm	150	%	
TD : Break, 32 µm	630	%	
Elmendorf Tear Strength - MD (32 µm)	160	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)	60		ASTM D2457

Haze (31.8 μm)	6.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	166 to 193	°C	

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