

Petrothene® NA420127

Low Density Polyethylene + EVA

LyondellBasell Industries

Message:

Petrothene NA420 is a series of LDPE/EVA copolymer resins selected by customers for high impact and clarity packaging film.

General Information			
Additive	Anti-caking agent (1200 ppm)		
	Sliding agent (750 ppm)		
Features	Copolymer		
	smoothness		
	Anti-caking property		
	Impact resistance, high		
	Definition, high		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
Agency Ratings	FDA 21 CFR 177.1350		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.5	g/10 min	ASTM D1238
Vinyl Acetate Content	2.5	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	172	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 32 µm	22.8	MPa	ASTM D882
TD: Yield, 32 µm	16.5	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)	80	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 32 μm	220	g	ASTM D1922
TD : 32 μm	250	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	90.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 μm)	73		ASTM D2457
Haze (31.8 μm)	4.5	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	166 - 193	°C	
Extrusion instructions			

Blow Up Ratio: 1.7:1 to 3.0:1

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