

Petrothene® NA420000

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	
Features	Copolymer
	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
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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