

Petrothene® NA442051

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA442 is a series of LDPE/EVA copolymer resins selected by customers for high impact/high clarity packaging and lamination applications.

General Information			
Additive	Antiblock (1000 ppm)		
	Slip (500 ppm)		
Features	Antiblocking		
	Copolymer		
	Food Contact Acceptable		
	High Clarity		
	High Impact Resistance		
	Slip		
Uses	Laminates		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1350		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
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			ASTM E111
1% Secant, MD : 32 µm, Blown Film	131	MPa	
1% Secant, TD : 32 µm, Blown Film	165	MPa	
Tensile Strength			ASTM D882
MD : Yield,32 µm, Blown Film	24.8	MPa	
TD : Yield,32 µm, Blown Film	19.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 32 µm,Blown Film	320	%	
TD : Break, 32 µm,Blown Film	550	%	

Dart Drop Impact (32 μm, Blown Film)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 32 μm, Blown Film	160	g	
TD : 32 μm, Blown Film	180	g	
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, Blown Film)	75		ASTM D2457
Haze (31.8 μm, Blown Film)	4.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	166 to 193	°C	

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