

# Petrothene® NA480145

Low Density Polyethylene  
LyondellBasell Industries

Message:

PETROTHENE NA480 is a series of low density/EVA copolymer resins designed for specialty films. NA480 produces film with superior puncture resistance, impact strength, heat sealability, clarity and low temperature flexibility. Applications include ice bags, frozen food packaging, bundling and heavy-duty bags.

General Information			
Additive	Antiblock (6000 ppm)		
	Slip (1000 ppm)		
Features	Copolymer		
	Food Contact Acceptable		
	Good Heat Seal		
	High Antiblocking		
	High Clarity		
	High Slip		
	Low Temperature Flexibility		
	Puncture Resistant		
Uses	Bags		
	Food Packaging		
	Heavy-duty Bags		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1350		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Vinyl Acetate Content	4.5	wt%	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 51 µm, Blown Film	131	MPa	
1% Secant, TD : 51 µm, Blown Film	159	MPa	

Tensile Strength			ASTM D882
MD : Yield,51 μm, Blown Film	22.1	MPa	
TD : Yield,51 μm, Blown Film	20.7	MPa	
Tensile Elongation			ASTM D882
MD : Break, 51 μm,Blown Film	370	%	
TD : Break, 51 μm,Blown Film	550	%	
Dart Drop Impact (51 μm, Blown Film)	320	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 51 μm, Blown Film	150	g	
TD : 51 μm, Blown Film	250	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	88.0	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	166 to 221	°C	

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#### Recommended distributors for this material

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