

# Petrothene® NA480178

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 (1%)		
Features	Copolymer		
	Food Contact Acceptable		
	Good Heat Seal		
	High Antiblocking		
	High Clarity		
	Low Temperature Flexibility		
Uses	Puncture Resistant		
	Bags		
	Food Packaging		
	Heavy-duty Bags		
Agency Ratings	Packaging		
	FDA 21 CFR 177.1350		
	Pellets		
	Blown Film		
Forms	Film Extrusion		
Processing Method			

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 $\mu$ m,Blown Film	370	%	
TD : Break, 51 $\mu$ m,Blown Film	550	%	
Dart Drop Impact (51 $\mu$ m, Blown Film)	320	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 51 $\mu$ m, Blown Film	150	g	
TD : 51 $\mu$ m, 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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