

Petrothene® NA490177

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA490177 is a LDPE/EVA copolymer resin selected by customers for use in specialty films. NA490177 contains antiblock and is used to produce film with excellent puncture resistance, impact strength, heat sealability, clarity and low temperature flexibility. Typical applications include frozen food packaging, bundling and heavy-duty bags.

General Information			
Additive	Antiblock (6000 ppm)		
Features	Antiblocking		
	Food Contact Acceptable		
	Good Heat Seal		
	Good Impact Resistance		
	High Clarity		
	Low Temperature Flexibility		
	Puncture Resistant		
Uses	Bags		
	Film		
	Food Packaging		
	Heavy-duty Bags		
Agency Ratings	FDA 21 CFR 177.1350		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density			ASTM D1505
-- ¹	0.923	g/cm ³	
--	0.926	g/cm ³	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.30	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	
NOTE			

1. Base Resin

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