

Petrothene® NA317

Low Density Polyethylene

LyondellBasell Industries

Message:

PETROTHENE NA 317 is a series of homopolymer resins designed for household wrap and other applications requiring high clarity and good impact strength.

General Information			
Features	Food Contact Acceptable		
	Good Impact Resistance		
	High Clarity		
	Homopolymer		
Uses	Film		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 32 µm	207	MPa	
1% Secant, TD : 32 µm	248	MPa	ASTM D882
Tensile Strength			
MD : Yield, 32 µm	11.0	MPa	
MD : Break, 32 µm	27.6	MPa	
TD : Break, 32 µm	20.7	MPa	ASTM D882
Tensile Elongation			
MD : Break, 32 µm	300	%	
TD : Break, 32 µm	450	%	ASTM D1709
Dart Drop Impact (32 µm)	70	g	
Elmendorf Tear Strength			ASTM D1922
MD : 32 µm	360	g	
TD : 32 µm	400	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 µm)	80		ASTM D2457

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