# Petrothene® NA209009

### Low Density Polyethylene

LyondellBasell Industries

#### Message:

PETROTHENE NA 209-009 exhibits excellent processability, low warpage and a combination of softness and toughness desired for LDPE molding. Typical applications include automotive and medical items, toys, closures and lids.

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant Technical (P & AD) and Business contacts first.

General Information					
Features	Food Contact Acceptable				
	Good Processability				
	Good Toughness				
	Low Density				
	Low Warpage				
	Soft				
Uses	Automotive Applications				
	Closures				
	Lids				
	Medical/Healthcare Applications				
	Toys				
Agency Ratings	FDA 21 CFR 177.1520				
Forms	Pellets				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Density	0.925	g/cm³	ASTM D1505		
Melt Mass-Flow Rate (MFR) (190°C/2.16					
kg)	23	g/10 min	ASTM D1238		
Hardness	Nominal Value	Unit	Test Method		
Durometer Hardness (Shore D)	54		ASTM D2240		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Modulus - 1% Secant	221	MPa	ASTM D638		
Tensile Strength			ASTM D638		
Yield	13.1	MPa			
Break	8.27	MPa			
Tensile Elongation (Break)	120	%	ASTM D638		
Flexural Modulus	310	МРа	ASTM D790		
Thermal	Nominal Value	Unit	Test Method		
Deflection Temperature Under Load (0.45 MPa, Unannealed)	44.0	°C	ASTM D648		

Brittleness Temperature	-50.0	°C	ASTM D746
Vicat Softening Temperature	92.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	163	°C	
Middle Temperature	177	°C	
Front Temperature	177	°C	
Nozzle Temperature	177	°C	

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#### Recommended distributors for this material

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