

# Petrothene® NA345009

Low Density Polyethylene

LyondellBasell Industries

## Message:

Petrothene NA345009 is a low density homopolymer resin selected by customers for blow molding and injection molding applications. Clarity combined with strength and high stiffness are key attributes of NA345009. Typical customer applications include flexible containers, squeeze bottles and toys.

General Information			
Features	Food Contact Acceptable		
	High Clarity		
	High Stiffness		
	High Strength		
Uses	Bottles		
	Containers		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	56		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	12.4	MPa	
Break	12.1	MPa	
Tensile Elongation			ASTM D638
Yield <sup>2</sup>	14	%	
Break	> 600	%	
Flexural Modulus <sup>3</sup>			ASTM D790
1% Secant	296	MPa	
2% Secant	248	MPa	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	46.0	°C	ASTM D648

Brittleness Temperature	-76.0	°C	ASTM D746
Vicat Softening Temperature	96.0	°C	ASTM D1525
NOTE			
1.	510 mm/min		
2.	510 mm/min		
3.	13 mm/min		

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