

# Petrothene® NA204000 (Injection)

Low Density Polyethylene

LyondellBasell Industries

## Message:

Petrothene NA204000 resin exhibits an excellent balance of toughness and softness, with excellent dimensional stability. Typical applications include housewares, toys, containers and novelty items.

General Information			
Features	Good dimensional stability		
	Good toughness		
	Compliance of Food Exposure		
Uses	Container		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	50		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	10.3	MPa	ASTM D638
Fracture	11.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	17	%	ASTM D638
Fracture	550	%	ASTM D638
Flexural Modulus - 1% Secant	207	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -76.0	°C	ASTM D746
Injection	Nominal Value	Unit	
Rear Temperature	163	°C	
Middle Temperature	177	°C	
Front Temperature	177	°C	
Nozzle Temperature	177	°C	
NOTE			
1.	Type 4		

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#### Recommended distributors for this material

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