

# Petrothene® NA202000

Low Density Polyethylene

LyondellBasell Industries

## Message:

Petrothene NA202000 resin exhibits high processability, low warpage and a combination of softness and toughness desired for LDPE molding. Typical applications include automotive items, toys, closures and lids.

General Information			
Features	Low warpage		
	Workability, good		
	Good toughness		
	Soft		
	Compliance of Food Exposure		
Uses	Cover		
	Application in Automobile Field		
	Shell		
	Toys		
Agency Ratings	FDA 21 CFR 175.1520		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.915	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	22	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	8.62	MPa	ASTM D638
Fracture	10.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	23	%	ASTM D638
Fracture	550	%	ASTM D638
Flexural Modulus - 1% Secant	170	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-47.0	°C	ASTM D746
Injection	Nominal Value	Unit	
Rear Temperature	163	°C	
Middle Temperature	177	°C	
Front Temperature	177	°C	

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#### Recommended distributors for this material

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