

Petrothene® NA206000 (Injection Molding)

Low Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA206000 is selected by customers for specialty molding applications in closures, toys and automotive areas where a balance of softness and toughness, with good processability and excellent dimensional stability is desired.

General Information			
Features	Good dimensional stability		
	Workability, good		
	Good toughness		
Uses	Application in Automobile Field		
	Shell		
	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 ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	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 Strength ¹			ASTM D638
Yield	10.0	MPa	ASTM D638
Fracture	9.93	MPa	ASTM D638
Tensile Elongation ² (Yield)	15	%	ASTM D638
Flexural Modulus ³			ASTM D790
1% secant	207	MPa	ASTM D790
2% secant	186	MPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-74.0	°C	ASTM D746
Vicat Softening Temperature	86.0	°C	ASTM D1525
Injection	Nominal Value	Unit	
Rear Temperature	163	°C	
Middle Temperature	177	°C	
Front Temperature	177	°C	
Nozzle Temperature	177	°C	

NOTE

1.	510 mm/min
2.	510 mm/min
3.	13 mm/min

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