

# Petrothene® NA870252

Low Density Polyethylene

LyondellBasell Industries

## Message:

PETROTHENE NA870252 exhibits an excellent balance of toughness and softness with excellent dimensional stability. This resin contains a mold release agent and displays excellent part ejection properties. Typical applications include caps and closures, housewares, toys, containers and novelty items.

General Information			
Additive	Mold Release		
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Mold Release		
	Good Toughness		
Uses	Caps		
	Closures		
	Containers		
	Household Goods		
	Toys		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	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)	38	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	41		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	12.8	MPa	
Break	8.96	MPa	
Tensile Elongation <sup>2</sup> (Yield)	13	%	ASTM D638
Flexural Modulus <sup>3</sup>			ASTM D790
1% Secant	228	MPa	
2% Secant	186	MPa	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature <sup>4</sup>	-25.0	°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	
4.	F50	

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