

# Petrothene® NA860241

Low Density Polyethylene

LyondellBasell Industries

## Message:

Petrothene NA860 is a series of medium flow, low density polyethylene resins for the injection molding of caps, closures and other specialty applications. These resins exhibit balanced toughness, softness, dimensional stability and processability.

General Information			
Additive	Slip (1800 ppm)		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Processability		
	Good Toughness		
	High Slip		
	Medium Flow		
Uses	Caps		
	Closures		
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)	24	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	44		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	12.2	MPa	
Break	8.48	MPa	
Tensile Elongation <sup>2</sup> (Yield)	14	%	ASTM D638
Flexural Modulus <sup>3</sup>			ASTM D790
1% Secant	221	MPa	
2% Secant	179	MPa	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature <sup>4</sup>	-35.0	°C	ASTM D746
Vicat Softening Temperature	92.0	°C	ASTM D1525
NOTE			

1.	510 mm/min
2.	510 mm/min
3.	13 mm/min
4.	F50

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#### Recommended distributors for this material

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