

# Petrothene® NA860

Low Density Polyethylene

LyondellBasell Industries

## Message:

PETROTHENE NA 860 is a series of medium flow, low density polyethylene resins for the injection molding of caps, closures and other specialty applications. These resins exhibit an excellent balance of toughness, softness, dimensional stability and processability.

The base resin NA860 meets the requirements of the Food and Drug Administration, 21 CFR 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. For more information, contact your Equistar sales representative.

General Information			
Features	Food Contact Acceptable		
	Good Dimensional Stability		
	Good Processability		
	Good Toughness		
	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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