

## LyondellBasell Petrothene® NA860008 Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

### Material Notes:

**Applications**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.

**Regulatory Status**NA 860 meets the requirements of the Food and Drug Administration regulation, 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. Contact your Equistar sales representative for more information.

**Processing Techniques**Specific recommendations for processing NA 860 can only be made when the processing conditions, equipment and end use are known. For further suggestions, contact your Equistar sales representative. This product is from the former Equistar product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LyondellBasell-Petrothene-NA860008-Low-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_LyondellBasell-Petrothene-NA860008-Low-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.922 g/cc	0.0333 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	25 g/10 min	25 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	44	44	ASTM D2280
Tensile Strength at Break	8.48 MPa	1230 psi	Crosshead Speed - 20 in/min; ASTM D638
Tensile Strength, Yield	12.2 MPa	1770 psi	Crosshead Speed - 20 in/min; ASTM D638
Elongation at Yield	14 %	14 %	Crosshead Speed - 20 in/min; ASTM D638
1% Secant Modulus	221 MPa	32000 psi	Crosshead Speed - 1/2 in/min; ASTM D790
2% Secant Modulus	0.179 GPa	26.0 ksi	Crosshead Speed - 1/2 in/min; ASTM D790

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 Â°C	198 Â°F	ASTM D1525
Brittleness Temperature	-35.0 Â°C	-31.0 Â°F	F<sub>50</sub>, Test method has been found useful for specification purposes, but does not necessarily indicate the lowest temperature at which the material may be used.; ASTM D746

Descriptive Properties	Value	Comments
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Antioxidant Descriptive Properties	Low Value	Comments
Slip	None	

## Contact Songhan Plastic Technology Co.,Ltd.

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