

440

Petrothene® NA952000
Low Density Polyethylene
 LyondellBasell Industries [Web](#)



Product Description

PETROTHENE NA952000 is a low density polyethylene for use in both blow molding and injection molding applications. This resin exhibits excellent toughness, good softness and good dimensional stability. NA952000 is recommended for injection molding caps, closures, blow molding squeeze bottles and other specialty applications.

General

| | | |
|-------------------------|---|------------------------------------|
| Material Status | • Commercial: Active | |
| Literature ¹ | • Technical Datasheet (English) | |
| Availability | • Asia Pacific • Europe | • North America • South America |
| Features | • Food Contact Acceptable • Good Dimensional Stability | • Good Toughness • Soft |
| Uses | • Blow Molding Applications • Bottles | • Caps • Closures |
| Agency Ratings | • FDA 21 CFR 177.1520 | |
| Forms | • Pellets | |
| Processing Method | • Blow Molding | • Injection Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Density | 0.919 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 49 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield ² | 1500 | psi | |
| Break ³ | 1570 | psi | |
| Tensile Elongation ³ (Break) | 650 | % | ASTM D638 |
| Flexural Modulus ² | | | ASTM D790 |
| 1% Secant | 35000 | psi | |
| 2% Secant | 31400 | psi | |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | -58.0 | °F | ASTM D746 |
| Vicat Softening Temperature | 188 | °F | ASTM D1525 |

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² 0.50 in/min

³ 20 in/min



Copyright © 2011 IDES - The Plastics Web®.
 The information presented on this datasheet was acquired by IDES from the producer of the material. IDES makes substantial efforts to assure the accuracy of this data. However, IDES assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Revision History

Added to Prospector: November, 1995
 Last Updated: 3/29/2011