

Petrothene® NA324009

Medium Density Polyethylene

LyondellBasell Industries

Message:

Petrothene NA324009 is a medium density homopolymer resin selected by customers for blow molding applications. NA324009 provides good clarity, toughness and processability. Typical applications include flexible containers, squeeze bottles and toys.

| General Information | | | |
|--|-----------------------------|-------------------|-------------|
| Features | Workability, good | | |
| | Definition, high | | |
| | Good toughness | | |
| | Compliance of Food Exposure | | |
| Uses | Blow molding applications | | |
| | Bottle | | |
| | Container | | |
| | Toys | | |
| Agency Ratings | FDA 21 CFR 175.1520 | | |
| Processing Method | Blow molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.931 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 3.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 59 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Break) | 15.2 | MPa | ASTM D638 |
| Tensile Elongation (Break) | > 500 | % | ASTM D638 |
| Flexural Modulus | 386 | MPa | ASTM D790 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 53.0 | °C | ASTM D648 |
| Brittleness Temperature | < -76.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 105 | °C | ASTM D1525 |

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