

CONTINUUM™ DMDC-1250 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

CONTINUUM™ DMDC-1250 NT 7 High Density Polyethylene Resin (HDPE) is intended for use in both compression and injection molded closure applications including carbonated soft drink and hot fill closures. Its unique properties also make it suitable for living hinge closure applications. This resin has been designed to meet demanding performance requirements, especially in the areas of environmental stress crack resistance, stiffness, impact strength, and sensory, while maintaining good processing characteristics beneficial to molders.

Main Characteristics:

Excellent ESCR, Stiffness, and Impact Strength

Excellent Sensory Properties

Excellent Processing Characteristics

Complies with:

U.S. FDA 21 CFR 177.1520(c)3.2a

U.S. FDA-DMF

Canadian HPFB No Objection

Europe Commission Regulation (EU) No 10/2011

Consult the regulations for complete details.

| General Information | | | |
|---|-----------------------------|-------------------|-------------|
| Agency Ratings | DMF not rated | | |
| | FDA 21 CFR 177.1520(c) 3.2a | | |
| | HPFB (Canada) No Objection | | |
| | Europe No 10/2011 | | |
| Forms | Particle | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.955 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.5 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance | | | ASTM D1693 |
| 50°C, 10% Igepal, F50 | 272 | hr | ASTM D1693 |
| 50°C, 100% Igepal, F50 | > 2000 | hr | ASTM D1693 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 60 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 28.3 | MPa | ASTM D638 |
| Fracture | 22.1 | MPa | ASTM D638 |
| Tensile Elongation | | | ASTM D638 |
| Yield | 9.0 | % | ASTM D638 |
| Fracture | 690 | % | ASTM D638 |
| Flexural Modulus - 2% Secant | 1100 | MPa | ASTM D790B |
| Thermal | Nominal Value | Unit | Test Method |

| | | | |
|--|------|----|-----------------|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 68.3 | °C | ASTM D648 |
| Vicat Softening Temperature | 127 | °C | ASTM D1525 |
| Melting Temperature (DSC) | 130 | °C | Internal method |
| Peak Crystallization Temperature (DSC) | 117 | °C | Internal method |

Additional Information

Plaque molded and tested in accordance with ASTM D 4976.

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