

DOW™ MDPE DPDA-3170 NT 7

Medium Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW™ DPDA-3170 NT 7 Medium Density Polyethylene (MDPE) Resin is produced via UNIPOL™ Process Technology from Dow and is intended for rotational and injection molding and is specifically designed for applications requiring excellent processability and aesthetics combined with low warpage and good mechanical properties.

Processing and Stabilization: DOW DPDA-3170 NT 7 MDPE Resin is fully heat and UV stabilized resulting in a wide processing latitude, good color retention and long life expectancy.

Rotational molding or injection molding

For intermediate bulk containers, toys, general purpose custom molding, agricultural storage tanks, water tanks, marine parts, indoor consumer articles

Excellent impact strength, stress crack resistance and processability

Long term UV stabilization: UV-8 stabilizer package

Complies with:

U.S. FDA 21 CFR 177.1520 (c)3.1a

Canadian HPFB No Objection

Underwriters Laboratories Inc.

NSF International NSF/ANSI Std 61 (sec 4 & 5)

European Commission Regulation (EU) No 10/2011

Consult the regulations for complete details.

| General Information | | | |
|---|-----------------------------|-------------------|-------------|
| UL YellowCard | E337483-100711922 | | |
| Agency Ratings | EU 10/2011 | | |
| | FDA 21 CFR 177.1520(c) 3.1a | | |
| | HPFB (Canada) No Objection | | |
| | NSF 61 | | |
| | UL Unspecified Rating | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| | Rotational Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 0.935 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 7.0 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance ¹ | | | |
| 50°C, 10% Igepal, F50 | > 417 | hr | ASTM D1693 |
| 50°C, 100% Igepal, F50 | > 1000 | hr | ASTM D1693A |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength ² (Yield) | 18.4 | MPa | ASTM D638 |
| Flexural Modulus - 1% Secant ³ | 603 | MPa | ASTM D790B |
| Impact | Nominal Value | Unit | Test Method |
| Impact Strength | | | ARM |

| -40°C, 3.18 mm, Rotational Molded | 72 | J | |
|--|---|------|-----------------|
| -40°C, 6.35 mm, Rotational Molded | 228 | J | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load ⁴ | | | ASTM D648 |
| 0.45 MPa, Unannealed | 50.6 | °C | |
| 1.8 MPa, Unannealed | 35.6 | °C | |
| Melting Temperature (DSC) | 126 | °C | Internal Method |
| NOTE | | | |
| 1. | Plaque molded and tested in accordance with ASTM D4976. | | |
| 2. | Plaque molded and tested in accordance with ASTM D4976. | | |
| 3. | Plaque molded and tested in accordance with ASTM D4976. | | |
| 4. | Plaque molded and tested in accordance with ASTM D4976. | | |

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