# UNIVAL™ DMDC-6145 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

Outstanding environmental stress crack resistance
Excellent parison melt strength / low sag
Good extrudability / processability
Good rigidity
Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a
Complies with Canadian HPFB No Objection (With Limitations)
Consult the regulations for complete details.
UNIVAL™ DMDC-6145 NT 7 High Density Polyethylene (HDPE) Resin provides good parison stability, which contributes to uniform wall thickness in large parts, making it ideal for blow molded containers ranging from, 5-15 gallon (9-57 liter) tight-head pails to 30-gallon (114 liter) drums. Containers molded from this resin offer outstanding environmental stress cracking resistance (ESCR) and excellent rigidity. The appearance of finished blow molded parts made from this resin is excellent.

| General Information | | | |
|---|---|---|---|
| Agency Ratings | FDA 21 CFR 177.1520(c) 3.2a<br>HPFB (Canada) No Objection 2 | | |
| Forms | Particle | | |
| Processing Method | Blow molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 0.951 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/21.6 kg) | 14 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50) | > 1500 | hr | ASTM D1693 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D) | 62 | | ASTM D2240 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength | | | ASTM D638 |
| Yield | 25.5 | MPa | ASTM D638 |
| Fracture | 34.5 | MPa | ASTM D638 |
| Tensile Elongation | | | ASTM D638 |
| Yield | 7.0 | % | ASTM D638 |
| Fracture | 1000 | % | ASTM D638 |
| Flexural Modulus - 2% Secant | 903 | MPa | ASTM D790B |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Impact Strength [1] | 252 | kJ/m² | ASTM D1822 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 65.0 | °C | ASTM D648 |
| Brittleness Temperature | < -76.1 | °C | ASTM D746 |

| | | | |
|---|---|---|---|
| Vicat Softening Temperature | 129 | °C | ASTM D1525 |
| Melting Temperature (DSC) | 131 | °C | Internal method |
| Peak Crystallization Temperature (DSC) | 117 | °C | Internal method |

| Additional Information |
|---|
| 根据 ASTM D 4976 进行基板模制和测试. |

| NOTE | |
|---|---|
| 1. | Type s |



## Recommended distributors for this material

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