# UNIVAL™ DMDH-6400 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

## Message:

Maximum rigidity
High impact strength
Top load strength
Moderate swell
Complies with U.S. FDA 21 CFR 177.1520 (c) 2.2
Complies with Canadian HPFB No Objection (With Limitations)
Complies with EU, No 10/2011
Complies with U.S. FDA-DMF
Consult the regulations for complete details.
UNIVAL™ DMDH-6400 NT 7 High Density Polyethylene (HDPE) Resin is a multi-purpose polymer designed for producing containers used to package dairy, water and fruit drinks. In addition, it can be blow molded into other thin-walled parts and houseware items.

| General Information | | | |
|---|---|---|---|
| Agency Ratings | FDA 21 CFR 177.1520(c) 2.2<br>HPFB (Canada) No Objection 2<br>Europe No 10/2011 | | |
| Forms | Particle | | |
| Processing Method | Blow molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 0.961 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 190°C/2.16 kg | 0.80 | g/10 min | ASTM D1238 |
| 190°C/21.6 kg | 57 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50) | 20.0 | hr | ASTM D1693 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D) | 66 | | ASTM D2240 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength | | | ASTM D638 |
| Yield | 31.7 | MPa | ASTM D638 |
| Fracture | 24.1 | MPa | ASTM D638 |
| Tensile Elongation | | | ASTM D638 |
| Yield | 7.0 | % | ASTM D638 |
| Fracture | 1000 | % | ASTM D638 |
| Flexural Modulus - 2% Secant | 1300 | MPa | ASTM D790B |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Impact Strength [1] | 84.1 | kJ/m² | ASTM D1822 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 76.0 | °C | ASTM D648 |
| Brittleness Temperature | < -76.1 | °C | ASTM D746 |
| Vicat Softening Temperature | 131 | °C | ASTM D1525 |
| Melting Temperature (DSC) | 133 | °C | Internal method |
| Peak Crystallization Temperature (DSC) | 120 | °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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