# DOWLEX™ 2631.10UE

Polyethylene Resin

The Dow Chemical Company

## Message:

DOWLEX™ 2631UE Polyethylene Resin for rotational and injection moulding is specifically designed for applications requiring excellent processability and aesthetics combined with low warpage and good mechanical properties. Processing and Stabilisation: DOWLEX 2631UE™ Polyethylene Resin is fully heat and UV stabilised resulting in a wide processing latitude, good colour retention and long life expectancy. The powder version is named DOWLEX™ 2631.10UE Polyethylene Resin.
Applications:
Toys
Technical mouldings
Flat surface containers
Caravan tanks
Complies with:
EU, No 10/2011
U.S. FDA 21 CFR 177.1520(c)3.1a
Consult the regulations for complete details.

| General Information | |
|---|---|
| Agency Ratings | EU No 10/2011<br>FDA 21 CFR 177.1520(c) 3.1a |
| Forms | Powder |
| Processing Method | Injection Molding<br>Rotational Molding |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Specific Gravity | 0.935 | g/cm³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 7.0 | g/10 min | ISO 1133 |
| Environmental Stress-Cracking Resistance (50°C, 100% Antarox, Compression Molded) | > 1000 | hr | ASTM D1693 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Shore Hardness (Shore D, Compression Molded) | 56 | | ISO 868 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (Yield, Compression Molded) | 17.8 | MPa | ISO 527-2 |
| Tensile Strain (Break, Compression Molded) | 420 | % | ISO 527-2 |
| Flexural Modulus (Compression Molded) | 628 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Multi-Axial Instrumented Impact Energy [1] | | | ISO 6603-2 |
| -20°C, Rotational Molded | 59.7 to 79.6 | J | |
| 23°C, Rotational Molded | 53.1 to 70.8 | J | |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |

| | | | |
|---|---|---|---|
| Heat Deflection Temperature (0.45 MPa, Unannealed) | 57.8 | °C | ISO 75-2/B |
| Vicat Softening Temperature | 115 | °C | ASTM D1525 [2] |
| Melting Temperature | 124 | °C | DSC |
| Peak Crystallization Temperature (DSC) | 110 | °C | DSC |

| NOTE | |
|---|---|
| 1. | Plates of 3-4 mm thickness. |
| 2. | Rate B (120°C/h), Loading 1 (10 N) |



## Recommended distributors for this material

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