

# DOWLEX™ 2631UE, DOWLEX™ 2631.10UE

## Polyethylene Resins

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.

**Note:** DOWLEX™ 2631UE Polyethylene Resin should comply with food contact regulations FDA regulation 177.1520(c)3.1a (with restrictions) and with European EU-Directive 2002/72/EC (see Notes) when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office for food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

### Applications:

- Toys
- Technical mouldings
- Flat surface containers
- Caravan tanks

Physical Properties <sup>(1,2)</sup>	Unit	Test Method	Values
Melt Index, 190 °C/2.16 kg	g/10 min	ISO 1133	7
Density	g/cm <sup>3</sup>	ASTM D-792	0.935
Melting Point	°C	DSC	124
Vicat Softening Point A120	°C	ASTM D-1525	115
Crystallisation Point	°C	DSC	110
Deflection Temperature Under Load HDT B	°C	ISO 75	52
Mechanical Properties <sup>(1,2,3)</sup>	Unit	Test Method	Values
Hardness, Shore D		ISO 868	56
Tensile Yield Stress	MPa	ISO 527-2	17.8
Ultimate Elongation	%	ISO 527-2	419
Flexural Modulus	MPa	ISO 178	628
ESCR 50°C, 100% Antarox	h	ASTM D-1693	> 1000
Falling Dart Impact, 23°C	J/mm	ISO 6603/2	17.7
-20°C	J/mm	ISO 6603/2	19.9

(1) Typical values; not to be construed as specification limits.

(2) Compression moulded samples

(3) Falling dart impact is made on rotomolded samples: Plates of 3-4 mm thickness

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- use in cardiac prosthetic devices regardless of the length of time involved; (Cardiac prosthetic devices include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass assisted devices);
- use as a critical component in medical devices that support or sustain human life; or
- use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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## Additional Information

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