

DOWLEX™ 2631UE

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		
	FDA 21 CFR 177.1520(c) 3.1a		
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	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)

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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