

DOWLEX™ 2629.10UE

Polyethylene Resin

The Dow Chemical Company

PROSPECTOR®

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Technical Data

Product Description

DOWLEX™ 2629UE Polyethylene Resin for rotational and injection moulding is specifically designed for applications requiring excellent environmental stress crack resistance and impact strength combined with low warpage and good processing. Processing and Stabilisation: DOWLEX™ 2629UE 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™ 2629.10UE Polyethylene Resin.

Applications:

- Intermediate bulk containers
- Drums for chemicals
- Boats
- Freezer containers
- Fish crates
- Small tanks

Complies with:

- EU, No 10/2011
- U.S. FDA CFR 177.1520(c)3.1a

Consult the regulations for complete details.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• The Dow Chemical Company
Availability	• Europe
Agency Ratings	• EU No 10/2011 • FDA 21 CFR 177.1520(c) 3.1a
Forms	• Powder
Processing Method	• Injection Molding • Rotational Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	0.937	0.935 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0 g/10 min	4.0 g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693
122°F (50°C), 10% AntaroX, Compression Molded	400 hr	400 hr	
122°F (50°C), 100% AntaroX, Compression Molded	> 1000 hr	> 1000 hr	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield, Compression Molded)	2540 psi	17.5 MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	650 %	650 %	ISO 527-2
Flexural Modulus (Compression Molded)	93500 psi	645 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Multi-Axial Instrumented Impact Energy ³			ISO 6603-2
-4°F (-20°C), Rotational Molded	48.7 to 64.9 ft·lb	66.0 to 88.0 J	
73°F (23°C), Rotational Molded	39.8 to 53.1 ft·lb	54.0 to 72.0 J	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D, Compression Molded)	57	57	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	149 °F	65.0 °C	
Vicat Softening Temperature	246 °F	119 °C	ASTM D1525 ⁴
Melting Temperature	255 °F	124 °C	DSC
Peak Crystallization Temperature (DSC)	230 °F	110 °C	DSC



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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ Plates of 3-4 mm thickness.

⁴ Rate B (120°C/h), Loading 1 (10 N)



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Where to Buy

Supplier

The Dow Chemical Company

Midland, MI USA

Telephone: 800-441-4369

Web: <http://plastics.dow.com/>

Distributor

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

