

DOWLEX™ 2629.10UE

Polyethylene Resin

The Dow Chemical Company

Message:

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 Information			
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	Unit	Test Method
Specific Gravity	0.935	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% AntaroX, Compression Molded	400	hr	
50°C, 100% AntaroX, Compression Molded	> 1000	hr	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	57		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield, Compression Molded)	17.5	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	650	%	ISO 527-2
Flexural Modulus (Compression Molded)	645	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Multi-Axial Instrumented Impact Energy ¹			ISO 6603-2
-20°C, Rotational Molded	66.0 to 88.0	J	
23°C, Rotational Molded	54.0 to 72.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B
Vicat Softening Temperature	119	°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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