DOWLEX™ NG 2432.10 UE

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ NG 2432 UE Polyethylene Resin for rotational and injection moulding from Dow Plastics is specifically designed for applications requiring stiffness in combination with excellent mechanical properties and good processing. The powder version is named DOWLEX™ NG 2432.10 UE Polyethylene Resin.
Processing and Stabilization: DOWLEX™ NG 2432 UE Polyethylene Resin is fully heat and UV-stabilised resulting in a wide processing latitude, good colour retention and long life expectancy.
Note: DOWLEX™ NG 2432 UE Polyethylene Resin should comply with FDA regulation 177.1520 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications.
Applications:
Large tanks
IBCs
Canoes
Boats

General Information	
Agency Ratings	FDA 21 CFR 177.1520
Forms	Powder
Processing Method	Injection Molding Rotational Molding

Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.8	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance			ASTM D1693
50°C, 10% Antarox, Compression Molded	70.0	hr	
50°C, 100% Antarox, Compression Molded	> 1000	hr	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	59		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2
Yield, Compression Molded	19.0	MPa	
Yield, Rotational Molded [1]	18.0	MPa	
Break, Compression Molded	9.70	MPa	
Break, Rotational Molded [2]	8.10	MPa	
Tensile Strain			ISO 527-2
Break, Compression Molded	550	%	
Break, Rotational Molded [3]	500	%	

Flexural Modulus - 1% Secant (Compression Molded)	730	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-20°C, Rotational Molded [4]	69.0 to 92.0	J	
-20°C, 1.00 mm, Compression Molded	24.0	J	
23°C, Rotational Molded [5]	45.0 to 60.0	J	
23°C, 1.00 mm, Compression Molded	15.0	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B
Vicat Softening Temperature	123	°C	ISO 306/A120
Melting Temperature	128	°C	DSC
Peak Crystallization Temperature (DSC)	106	°C	DSC
NOTE			
1.	3 to 4 mm plate thickness		
2.	3 to 4 mm plate thickness		
3.	3 to 4 mm plate thickness		
4.	3 to 4 mm plate thickness		
5.	3 to 4 mm plate thickness		

Recommended distributors for this material

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