

Bulk Molding Compounds tetra-DUR N 4203 Bulk Molding Compound

Category : Polymer , Thermoset , Polyester, TS , Polyester (Thermoset) - Rigid

Material Notes:

Highest dimensional stability under temp. Low profile. Typical Applications - Requiring mechanical strength, abrasion resistance, dimensional stability, electrical insulation, electrostatic dissipation (explosion protection), thermal stability, color retention, chemical stability, zero shrink/class-A-surface, and uniform color. Information provided by Bulk Molding Compounds, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-tetra-DUR-N-4203-Bulk-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.90 - 2.10 g/cc	0.0686 - 0.0759 lb/in ³	ISO 1138
Linear Mold Shrinkage	-0.00200 - 0.0010 cm/cm	-0.00200 - 0.0010 in/in	processing, expansion/shrinkage; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	30.0 - 35.0 MPa	4350 - 5080 psi	ISO 527
Flexural Strength	100 - 130 MPa	14500 - 18900 psi	ISO 178
Flexural Modulus	12.0 - 16.0 GPa	1740 - 2320 ksi	ISO 178
Compressive Strength	>= 180 MPa	>= 26100 psi	ISO 604
Charpy Impact Unnotched	>= 1.80 J/cm ²	>= 8.57 ft-lb/in ²	ISO 179
Charpy Impact, Notched	>= 1.80 J/cm ²	>= 8.57 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	12.0 - 20.0 µm/m-°C	6.67 - 11.1 µin/in-°F	VDE 0304T1
Deflection Temperature at 1.8 MPa (264 psi)	>= 240 °C	>= 464 °F	ISO 75
Flammability, UL94	HB	HB	
Shrinkage	0.00 - 0.050 %	0.00 - 0.050 %	post molding; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	4.5 @Frequency 100 Hz	4.5 @Frequency 100 Hz	IEC 60250

Electrical Properties	Metric 20.0 kV/mm	English 500 kV/in	Comments
Dielectric Strength	@Thickness 1.00 mm	@Thickness 0.0394 in	IEC 60243
Dielectric Loss Index	<= 0.030 @Frequency 100 Hz	<= 0.030 @Frequency 100 Hz	IEC 60250
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

Descriptive Properties	Value	Comments
Water Absorption	>40 mg/1d	ISO 62

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