

Bulk Molding Compounds tetra-DUR F 4001 Bulk Molding Compound

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

Material Notes:

UL-Licensed, Abrasion resistance, free of fiber glass. 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-F-4001-Bulk-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.60 - 1.70 g/cc	0.0578 - 0.0614 lb/in ³	ISO 1138
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	processing; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	30.0 MPa	4350 psi	ISO 527
Flexural Strength	55.0 - 80.0 MPa	7980 - 11600 psi	ISO 178
Flexural Modulus	5.00 - 8.00 GPa	725 - 1160 ksi	ISO 178
Compressive Strength	130 - 140 MPa	18900 - 20300 psi	ISO 604
Charpy Impact Unnotched	0.500 - 1.00 J/cm ²	2.38 - 4.76 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.300 - 0.800 J/cm ²	1.43 - 3.81 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	16.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	VDE 0304T1
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 200^{\circ}\text{C}$	$\geq 392^{\circ}\text{F}$	ISO 75
Flammability, UL94	V-0 @Thickness 19.0 mm	V-0 @Thickness 0.750 in	
Shrinkage	$\leq 0.10\%$	$\leq 0.10\%$	post molding; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Constant	4.5	4.5	IEC 60250

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
Dielectric Strength	22.0 kV/mm @Thickness 1.00 mm	559 kV/in @Thickness 0.0394 in	IEC 60243
Dielectric Loss Index	<= 0.040 @Frequency 100 Hz	<= 0.040 @Frequency 100 Hz	IEC 60250
Arc Resistance	180 sec	180 sec	ASTM D495-61
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

Descriptive Properties	Value	Comments
Water Absorption	>80 mg/1d	ISO 62

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