

Bulk Molding Compounds tetra-DUR F 4206 Bulk Molding Compound

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

Material Notes:

General purpose product 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-4206-Bulk-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.80 - 1.90 g/cc	0.0650 - 0.0686 lb/in ³	ISO 1138
Linear Mold Shrinkage	0.00 - 0.0020 cm/cm	0.00 - 0.0020 in/in	processing; ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength	30.0 - 40.0 MPa	4350 - 5800 psi	ISO 527
Flexural Strength	90.0 - 110 MPa	13100 - 16000 psi	ISO 178
Flexural Modulus	9.00 - 12.0 GPa	1310 - 1740 ksi	ISO 178
Compressive Strength	160 - 180 MPa	23200 - 26100 psi	ISO 604
Charpy Impact Unnotched	>= 2.00 J/cm ²	>= 9.52 ft-lb/in ²	ISO 179
Charpy Impact, Notched	>= 2.00 J/cm ²	>= 9.52 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 - 25.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	11.1 - 13.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	VDE 0304T1
Deflection Temperature at 1.8 MPa (264 psi)	>= 220 $^\circ\text{C}$	>= 428 $^\circ\text{F}$	ISO 75
Flammability, UL94	V-0 @Thickness 25.4 mm	V-0 @Thickness 1.00 in	
Shrinkage	0.00 - 0.50 %	0.00 - 0.50 %	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	4.5	IEC 60250

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
Dielectric Strength	28.0 kV/mm @Thickness 1.00 mm	711 kV/in @Thickness 0.0394 in	IEC 60243
Dielectric Loss Index	<= 0.030 @Frequency 100 Hz	<= 0.030 @Frequency 100 Hz	IEC 60250
Arc Resistance	180 - 200 sec	180 - 200 sec	ASTM D495-61
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

Descriptive Properties	Value	Comments
Water Absorption	<30 mg/1d	ISO 62

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