

## Bulk Molding Compounds tetra-DUR F 4209 Bulk Molding Compound

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

### Material Notes:

Highest Arc resistance  
 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-4209-Bulk-Molding-Compound.php](http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-tetra-DUR-F-4209-Bulk-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.80 - 2.00 g/cc	0.0650 - 0.0723 lb/in <sup>3</sup>	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 - 35.0 MPa	4350 - 5080 psi	ISO 527
Flexural Strength	70.0 - 110 MPa	10200 - 16000 psi	ISO 178
Flexural Modulus	10.0 - 12.0 GPa	1450 - 1740 ksi	ISO 178
Compressive Strength	>= 180 MPa	>= 26100 psi	ISO 604
Charpy Impact Unnotched	>= 1.50 J/cm <sup>2</sup>	>= 7.14 ft-lb/in <sup>2</sup>	ISO 179
Charpy Impact, Notched	>= 1.50 J/cm <sup>2</sup>	>= 7.14 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 - 20.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.33 - 11.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	VDE 0304T1
Deflection Temperature at 1.8 MPa (264 psi)	>= 240 $^{\circ}\text{C}$	>= 464 $^{\circ}\text{F}$	ISO 75
Flammability, UL94	V-0 @Thickness 8.00 mm	V-0 @Thickness 0.315 in	
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	4.5	IEC 60250

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
Dielectric Strength	30.0 kV/mm @Thickness 1.00 mm	762 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	220 sec	220 sec	ASTM D495-61
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

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

## Contact Songhan Plastic Technology Co.,Ltd.

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