

## Bulk Molding Compounds tetra-DUR F 4306 Bulk Molding Compound

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

### Material Notes:

Mechanical high grade standard 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-4306-Bulk-Molding-Compound.php](http://www.lookpolymers.com/polymer_Bulk-Molding-Compounds-tetra-DUR-F-4306-Bulk-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.70 - 1.80 g/cc	0.0614 - 0.0650 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	40.0 - 50.0 MPa	5800 - 7250 psi	ISO 527
Flexural Strength	90.0 - 120 MPa	13100 - 17400 psi	ISO 178
Flexural Modulus	9.00 - 11.0 GPa	1310 - 1600 ksi	ISO 178
Compressive Strength	150 - 170 MPa	21800 - 24700 psi	ISO 604
Charpy Impact Unnotched	3.00 - 3.50 J/cm <sup>2</sup>	14.3 - 16.7 ft-lb/in <sup>2</sup>	ISO 179
Charpy Impact, Notched	3.00 - 3.50 J/cm <sup>2</sup>	14.3 - 16.7 ft-lb/in <sup>2</sup>	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 - 30.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	11.1 - 16.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	VDE 0304T1
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 240^{\circ}\text{C}$	$\geq 464^{\circ}\text{F}$	ISO 75
Flammability, UL94	V-0 @Thickness 25.4 mm	V-0 @Thickness 1.00 in	
Shrinkage	0.00 - 0.050 %	0.00 - 0.050 %	post molding; ISO 2577

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 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 - 190 sec	180 - 190 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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China