

Bulk Molding Compounds tetra-DUR L 4305 Bulk Molding Compound

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

Material Notes:

UL-licensed. Anchor wave-isolation. 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-L-4305-Bulk-Molding-Compound.php

Physical Properties	Metric	English	Comments
Density	1.70 - 1.90 g/cc	0.0614 - 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 - 50.0 MPa	4350 - 7250 psi	ISO 527
Flexural Strength	90.0 - 120 MPa	13100 - 17400 psi	ISO 178
Flexural Modulus	10.0 - 14.0 GPa	1450 - 2030 ksi	ISO 178
Compressive Strength	140 - 200 MPa	20300 - 29000 psi	ISO 604
Charpy Impact Unnotched	1.80 - 3.00 J/cm ²	8.57 - 14.3 ft-lb/in ²	ISO 179
Charpy Impact, Notched	1.80 - 3.00 J/cm ²	8.57 - 14.3 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 - 25.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	8.33 - 13.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	VDE 0304T1
Deflection Temperature at 1.8 MPa (264 psi)	$\geq 240^{\circ}\text{C}$	$\geq 464^{\circ}\text{F}$	ISO 75
Flammability, UL94	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	English	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
Arc Resistance	180 sec	180 sec	ASTM D495-61
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

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

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