

Kolon KOCETAL[®] GB705 Glass Bead Reinforced Acetal Resin

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Glass bead added, improved dimensional stability. Applications: Products for high stiffness, dimensional precision. Information provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOCETAL-GB705-Glass-Bead-Reinforced-Acetal-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.20 %	0.20 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.017 cm/cm	0.017 in/in	ASTM D955
Melt Flow	23 g/10 min	23 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	82	82	ASTM D785
Tensile Strength	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Flexural Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	3.50 GPa	508 ksi	ASTM D790
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	44.4 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	166 $\text{Å}^\circ\text{C}$	331 $\text{Å}^\circ\text{F}$	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	163 $\text{Å}^\circ\text{C}$	325 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257

Surface Resistance Electrical Properties	1.00e+16 ohm Metric	1.00e+16 ohm English	ASTM D257 Comments
Dielectric Constant	3.7	3.7	ASTM D150
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
Dissipation Factor	0.0060 @Frequency 1.00e+6 Hz	0.0060 @Frequency 1.00e+6 Hz	ASTM D150

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