

Kolon KOCETAL[®] TC702 Mineral Reinforced Acetal Resin

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Mineral Filled

Material Notes:

Talc reinforced, 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-TC702-Mineral-Reinforced-Acetal-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 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	22 g/10 min	22 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	82	82	ASTM D785
Tensile Strength	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	14 %	14 %	ASTM D638
Flexural Strength	105 MPa	15200 psi	ASTM D790
Flexural Modulus	3.60 GPa	522 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 $\mu\text{m/m-}\text{^\circ}\text{C}$	44.4 $\mu\text{in/in-}\text{^\circ}\text{F}$	ASTM D696
Melting Point	166 $\text{^\circ}\text{C}$	331 $\text{^\circ}\text{F}$	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	162 $\text{^\circ}\text{C}$	324 $\text{^\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	135 $\text{^\circ}\text{C}$	275 $\text{^\circ}\text{F}$	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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