

Kolon KOCETAL® CB301 Conductive Grade Acetal Resin

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Conductive grade. Applications: Conductive products. Information provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOCETAL-CB301-Conductive-Grade-Acetal-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.22 %	0.22 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	ASTM D955
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75	75	ASTM D785
Tensile Strength	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	83.0 MPa	12000 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 ksi	ASTM D790
Izod Impact, Notched	0.480 J/cm	0.899 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	72.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	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)	152 $\text{Å}^\circ\text{C}$	306 $\text{Å}^\circ\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	106 $\text{Å}^\circ\text{C}$	223 $\text{Å}^\circ\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1000 ohm-cm	1000 ohm-cm	ASTM D257
Surface Resistance	10000 ohm	10000 ohm	ASTM D257

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