

Kolon KOCETAL® K100 Standard Grade Acetal Resin

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

Suitable for extrusion and injection molding of thick products. Applications: Extruded use such as rod, pipe, tube, and sheet
Information provided by API Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-KOCETAL-K100-Standard-Grade-Acetal-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Moisture Absorption at Equilibrium	0.22 %	0.22 %	60% RH; ASTM D570
Linear Mold Shrinkage	0.022 cm/cm	0.022 in/in	ASTM D955
Melt Flow	2.5 g/10 min	2.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78	78	ASTM D785
Tensile Strength	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	80 %	80 %	ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	0.870 J/cm	1.63 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	130 Åµm/m-Å°C	72.2 Åµin/in-Å°F	ASTM D696
Melting Point	166 Å°C	331 Å°F	ASTM D1525
Deflection Temperature at 0.46 MPa (66 psi)	158 Å°C	316 Å°F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 Å°C	230 Å°F	ASTM D648
Vicat Softening Point	162 Å°C	324 Å°F	ASTM D1525
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+14 ohm-cm Metric	1.00e+14 ohm-cm English	ASTM D257 Comments
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
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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