

KEP Kepital® F40 Standard Grade/Low Viscosity Acetal Homopolymer

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

Material Notes:

injection molding: electrical parts, machine/mechanical parts, industrial parts, automotive applications, electronic data

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Order this product through the following link:

http://www.lookpolymers.com/polymer_KEP-Kepital-F40-Standard-GradeLow-Viscosity-Acetal-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.22 %	0.22 %	24 hrs.; ASTM D570
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ASTM D955
Melt Flow	45 g/10 min	45 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength at Break	62.2 MPa	9020 psi	ASTM D638
Elongation at Break	45 %	45 %	
Flexural Yield Strength	88.3 MPa	12800 psi	ASTM D790
Flexural Modulus	2.616 GPa	379.4 ksi	ASTM D790
Izod Impact, Notched	0.491 J/cm	0.920 ft-lb/in	0.126 inches; ASTM D256
Tensile Impact Strength	98.1 kJ/m ²	46.7 ft-lb/in ²	0.0630 in; ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature 20.0 $\text{Å}^\circ\text{C}$	72.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature 68.0 $\text{Å}^\circ\text{F}$	ASTM D696
Melting Point	165 $\text{Å}^\circ\text{C}$	329 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	158 $\text{Å}^\circ\text{C}$	316 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	Unannealed; ASTM D648
Flammability, UL94	HB	HB	0.0315 in.

Thermal Properties	HB Metric	HB English	0.252 in Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	ASTM D257
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	19.0 kV/mm	483 kV/in	ASTM D149
Dissipation Factor	0.0070 @Frequency 1e+6 Hz	0.0070 @Frequency 1e+6 Hz	ASTM D150

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