

KEP Kepital® F10 Standard Grade/High Viscosity Acetal Homopolymer

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

Material Notes:

Extrusion: electrical parts, machine/mechanical parts, industrial parts, automotive parts, applications, electronic data processing parts, thick-walled Kepital® is a registered trademark of Korea Engineering Plastics Co., Ltd. Information provided by Dayson Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_KEP-Kepital-F10-Standard-GradeHigh-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	0.022 cm/cm	0.022 in/in	ASTM D955
Melt Flow	30 g/10 min @Load 2.16 kg, Temperature 190 °C	30 g/10 min @Load 4.76 lb, Temperature 374 °F	Condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	78	78	ASTM D785
Tensile Strength at Break	60.3 MPa	8750 psi	ASTM D638
Elongation at Break	65 %	65 %	
Flexural Yield Strength	88.3 MPa	12800 psi	ASTM D790
Flexural Modulus	2.570 GPa	372.7 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	0.126 inches; ASTM D256
Tensile Impact Strength	118 kJ/m ²	56.0 ft-lb/in ²	0.0630 in; ASTM D1822

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 µm/m-°C @Temperature 20.0 °C	72.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Melting Point	165 °C	329 °F	
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	Unannealed; ASTM D648

Flammability UL 94 Thermal Properties	HB Metric	HB English	0.0315 in. Comments
	HB	HB	0.252 in.

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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