

KEP Kepital® FG2025 25% Glass Fiber Reinforced Acetal Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

Material Notes:

Information provided by US distributor Polymer Technology and Services, LLC (PTS).

Order this product through the following link:

http://www.lookpolymers.com/polymer_KEP-Kepital-FG2025-25-Glass-Fiber-Reinforced-Acetal-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hours at 73°F

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95	95	ASTM D785
Tensile Strength, Yield	136.8 MPa @Thickness 3.17 mm	19840 psi @Thickness 0.125 in	
Elongation at Break	3.0 % @Thickness 3.17 mm	3.0 % @Thickness 0.125 in	
Flexural Yield Strength	205.2 MPa @Thickness 3.17 mm	29760 psi @Thickness 0.125 in	
Flexural Modulus	9.03 GPa @Thickness 3.17 mm	1310 ksi @Thickness 0.125 in	
Izod Impact, Notched	0.960 J/cm @Thickness 3.17 mm	1.80 ft-lb/in @Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Melting Point	203 °C	397 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	164 °C	327 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	

Processing Properties	Metric	English	Comments
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Rear Barrel Temperature Processing Properties	165 - 180 Å°C Metric	329 - 356 Å°F English	Comments
Middle Barrel Temperature	175 - 195 Å°C	347 - 383 Å°F	
Front Barrel Temperature	180 - 195 Å°C	356 - 383 Å°F	
Nozzle Temperature	180 - 195 Å°C	356 - 383 Å°F	
Melt Temperature	185 - 220 Å°C	365 - 428 Å°F	
Mold Temperature	70.0 - 90.0 Å°C	158 - 194 Å°F	
Drying Temperature	80.0 - 90.0 Å°C	176 - 194 Å°F	
Dry Time	3 - 4 hour	3 - 4 hour	
Injection Pressure	48.3 - 117 MPa	7000 - 17000 psi	

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