

KEP Kepital® F20-52 Acetal Copolymer

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

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-F20-52-Acetal-Copolymer.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 hours at 73°F
Melt Flow	9.0 g/10 min	9.0 g/10 min	
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80	80	ASTM D785
Tensile Strength, Yield	59.3 MPa	8600 psi	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Elongation at Break	50 %	50 %	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Yield Strength	85.5 MPa	12400 psi	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	2.55 GPa	370 ksi	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ASTM D789
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648

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

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