

Polymer Resources AC-G10 Acetal Copolymer, 10% Glass Reinforced

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 10% Glass Fiber Reinforced

Material Notes:

Process: Molding or Extrusion
Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples. Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-AC-G10-Acetal-Copolymer-10-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 - 0.015 cm/cm	0.010 - 0.015 in/in	ASTM D955
Melt Flow	1.0 - 4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 - 4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7000 psi	ASTM D638
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm @Temperature 22.8 °C	0.500 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	154 °C	310 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	350 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB @Thickness 3.17 mm	HB @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	177 - 188 °C	350 - 370 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	182 - 193 °C	300 - 380 °F	
Front Barrel Temperature	188 - 199 °C	370 - 390 °F	
Melt Temperature	199 - 213 °C	390 - 415 °F	
Mold Temperature	82.2 - 107 °C	180 - 225 °F	
Drying Temperature	79.4 - 85.0 °C	175 - 185 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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