

Polymer Resources AH-GP1 Acetal Homopolymer, Low Flow, High Melt Strength, Heat Stabilized

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

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-AH-GP1-Acetal-Homopolymer-Low-Flow-High-Melt-Strength-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Linear Mold Shrinkage	0.018 - 0.021 cm/cm	0.018 - 0.021 in/in	ASTM D955
Melt Flow	1.0 - 3.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 - 3.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.6 MPa	9800 psi	ASTM D638
Tensile Strength, Yield	67.6 MPa	9800 psi	ASTM D638
Flexural Strength	94.80 MPa	13750 psi	ASTM D790
Flexural Modulus	2.83 GPa	410 ksi	ASTM D790
Izod Impact, Notched	1.17 J/cm @Temperature 22.8 °C	2.20 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	22.6 J	16.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	166 °C	330 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °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	193 - 204 °C	380 - 400 °F	
Middle Barrel Temperature	196 - 207 °C	385 - 405 °F	
Front Barrel Temperature	199 - 210 °C	390 - 410 °F	
Melt Temperature	199 - 210 °C	390 - 410 °F	
Mold Temperature	79.4 - 98.9 °C	175 - 210 °F	
Drying Temperature	76.7 - 82.2 °C	170 - 180 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0005	

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