

Polymer Resources AC-GP1 Acetal Copolymer, Low Flow, High Melt Strength (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 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-AC-GP1-Acetal-Copolymer-Low-Flow-High-Melt-Strength-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	ASTM D955
Melt Flow	2.0 - 4.0 g/10 min	2.0 - 4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	61.4 MPa	8900 psi	ASTM D638
Tensile Strength, Yield	61.4 MPa	8900 psi	ASTM D638
Flexural Strength	90.3 MPa	13100 psi	ASTM D790
Flexural Modulus	2.60 GPa	377 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	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)	157 °C	315 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	168 - 174 °C	335 - 345 °F	
Middle Barrel Temperature	179 - 185 °C	355 - 365 °F	
Front Barrel Temperature	185 - 191 °C	365 - 375 °F	

Melt Temperature Processing Properties	182 - 199 °C Metric	360 - 390 °F English	Comments
Mold Temperature	76.7 - 93.3 °C	170 - 200 °F	
Drying Temperature	79.4 - 85.0 °C	175 - 185 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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