

## Polymer Resources AC-GP1 Acetal Copolymer, Low Flow, High Melt Strength

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.php](http://www.lookpolymers.com/polymer_Polymer-Resources-AC-GP1-Acetal-Copolymer-Low-Flow-High-Melt-Strength.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Linear Mold Shrinkage	0.018 - 0.022 cm/cm	0.018 - 0.022 in/in	ASTM D955
Melt Flow	1.0 - 5.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 - 5.0 g/10 min @Load 4.76 lb, Temperature 374 °F	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 @Temperature 22.8 °C	1.30 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)	157 °C	315 °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	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	182 - 199 °C	360 - 390 °F	
Mold Temperature	76.7 - 93.3 °C	170 - 200 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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