

## Polymer Resources AC-GP3 Acetal Copolymer, High Flow, Thin Walled Molding (Unverified Data\*\*)

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

### Material Notes:

Process: Injection Molding 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-GP3-Acetal-Copolymer-High-Flow-Thin-Walled-Molding-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Polymer-Resources-AC-GP3-Acetal-Copolymer-High-Flow-Thin-Walled-Molding-nbspUnverified-Data.php)

| Physical Properties   | Metric              | English                   | Comments   |
|-----------------------|---------------------|---------------------------|------------|
| Density               | 1.41 g/cc           | 0.0509 lb/in <sup>3</sup> | ASTM D792  |
| Linear Mold Shrinkage | 0.018 - 0.022 cm/cm | 0.018 - 0.022 in/in       | ASTM D955  |
| Melt Flow             | 25 - 30 g/10 min    | 25 - 30 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      | 0.534 J/cm | 1.00 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<br>Processing Properties | 182 - 199 °C<br>Metric | 360 - 390 °F<br>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              |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China