

## Asahi Kasei Tenac® GA510 Homopolymer Acetal Resin

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Glass Fiber Reinforced

### Material Notes:

10% Glass fiber filled grade with high stiffness and superior dimensional stability. Information provided by Asahi Kasei Corporation.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Kasei-Tenac-GA510-Homopolymer-Acetal-Resin.php](http://www.lookpolymers.com/polymer_Asahi-Kasei-Tenac-GA510-Homopolymer-Acetal-Resin.php)

| Physical Properties               | Metric              | English                   | Comments           |
|-----------------------------------|---------------------|---------------------------|--------------------|
| Density                           | 1.50 g/cc           | 0.0542 lb/in <sup>3</sup> | ISO 1183           |
| Linear Mold Shrinkage             | 0.015 - 0.018 cm/cm | 0.015 - 0.018 in/in       | Asahi Kasei Method |
| Linear Mold Shrinkage, Transverse | 0.010 - 0.013 cm/cm | 0.010 - 0.013 in/in       | Asahi Kasei Method |
| Melt Flow                         | 17 g/10 min         | 17 g/10 min               | ISO 1133 D         |

| Mechanical Properties     | Metric                  | English                    | Comments          |
|---------------------------|-------------------------|----------------------------|-------------------|
| Tensile Strength at Break | 64.0 MPa                | 9280 psi                   | ISO 527 - 1 & - 2 |
| Elongation at Break       | 20 %                    | 20 %                       | ISO 527 - 1 & - 2 |
| Tensile Modulus           | 3.90 GPa                | 566 ksi                    | ISO 527 - 1 & - 2 |
| Charpy Impact, Notched    | 0.500 J/cm <sup>2</sup> | 2.38 ft-lb/in <sup>2</sup> | ISO 179 / 1eA     |

| Thermal Properties                          | Metric | English | Comments              |
|---------------------------------------------|--------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 165 °C | 329 °F  | ISO 75 - 1 & - 2 flat |
| Deflection Temperature at 1.8 MPa (264 psi) | 105 °C | 221 °F  | ISO 75 - 1 & - 2 flat |
| Flammability, UL94                          | HB     | HB      |                       |

## Contact Songhan Plastic Technology Co.,Ltd.

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