

## Asahi Kasei Thermylene® P-10FG-2100 10% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 10% Glass Fiber Filler

**Material Notes:**

Information provided by Asahi Thermofil

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Asahi-Kasei-Thermylene-P-10FG-2100-10-Glass-Fiber-Reinforced.php](http://www.lookpolymers.com/polymer_Asahi-Kasei-Thermylene-P-10FG-2100-10-Glass-Fiber-Reinforced.php)

| Physical Properties   | Metric       | English      | Comments   |
|-----------------------|--------------|--------------|------------|
| Specific Gravity      | 0.970 g/cc   | 0.970 g/cc   | ASTM D792  |
| Linear Mold Shrinkage | 0.0070 cm/cm | 0.0070 in/in | ASTM D955  |
| Melt Flow             | 7.0 g/10 min | 7.0 g/10 min | ASTM D1238 |

| Mechanical Properties   | Metric     | English        | Comments   |
|-------------------------|------------|----------------|------------|
| Hardness, Rockwell R    | 92         | 92             | ASTM D785  |
| Tensile Strength, Yield | 51.7 MPa   | 7500 psi       | ASTM D638  |
| Elongation at Yield     | 4.0 %      | 4.0 %          | ASTM D638  |
| Tensile Modulus         | 2.34 GPa   | 340 ksi        | ASTM D638  |
| Flexural Strength       | 68.9 MPa   | 10000 psi      | ASTM D790  |
| Flexural Modulus        | 2.07 GPa   | 300 ksi        | ASTM D790  |
| Izod Impact, Notched    | 0.427 J/cm | 0.800 ft-lb/in | ASTM D256  |
| Izod Impact, Unnotched  | 3.74 J/cm  | 7.00 ft-lb/in  | ASTM D4812 |

| Thermal Properties                          | Metric                                    | English                                     | Comments  |
|---|---|---|-----------|
| CTE, linear                                 | 54.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 30.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ | ASTM D696 |
|   | @Temperature 20.0 °C                      | @Temperature 68.0 °F                        |           |
| Deflection Temperature at 0.46 MPa (66 psi) | 149 °C                                    | 300 °F                                      | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 132 °C                                    | 270 °F                                      | ASTM D648 |

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