

Asahi Kasei Thermylene® P6-30FG-1734 30% Glass Fiber Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 30% 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-P6-30FG-1734-30-Glass-Fiber-Reinforced-Heat-Stabilized.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|------------|
| Specific Gravity | 1.13 g/cc | 1.13 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.0030 cm/cm | 0.0030 in/in | ASTM D955 |
| Melt Flow | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|------------|
| Hardness, Rockwell R | 85 | 85 | ASTM D785 |
| Tensile Strength, Yield | 68.9 MPa | 10000 psi | ASTM D638 |
| Elongation at Yield | 5.0 % | 5.0 % | ASTM D638 |
| Flexural Strength | 96.5 MPa | 14000 psi | ASTM D790 |
| Flexural Modulus | 4.14 GPa | 600 ksi | ASTM D790 |
| Izod Impact, Notched | 2.40 J/cm | 4.50 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 8.54 J/cm | 16.0 ft-lb/in | ASTM D4812 |

| Thermal Properties | Metric | English | Comments |
|---|---|---|-----------|
| CTE, linear | 37.8 $\mu\text{m}/\text{m}\cdot\text{°C}$ | 21.0 $\mu\text{in}/\text{in}\cdot\text{°F}$ | ASTM D696 |
| | @Temperature 20.0 °C | @Temperature 68.0 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 157 °C | 315 °F | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 145 °C | 293 °F | ASTM D648 |

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