

Asahi Kasei Thermofil P-9900-1760 Unreinforced, Heat Stabilized, Impact Modified

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Information provided by Asahi Thermofil

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Thermofil-P-9900-1760-Unreinforced-Heat-Stabilized-Impact-Modified.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|--------------|------------|
| Specific Gravity | 0.910 g/cc | 0.910 g/cc | ASTM D792 |
| Linear Mold Shrinkage | 0.015 cm/cm | 0.015 in/in | ASTM D955 |
| Melt Flow | 6.0 g/10 min | 6.0 g/10 min | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|-----------|---------------|------------|
| Hardness, Rockwell R | 80 | 80 | ASTM D785 |
| Tensile Strength, Yield | 27.6 MPa | 4000 psi | ASTM D638 |
| Elongation at Yield | 50 % | 50 % | ASTM D638 |
| Flexural Strength | 34.5 MPa | 5000 psi | ASTM D790 |
| Flexural Modulus | 1.10 GPa | 160 ksi | ASTM D790 |
| Izod Impact, Notched | 1.28 J/cm | 2.40 ft-lb/in | ASTM D256 |
| Izod Impact, Unnotched | 16.0 J/cm | 30.0 ft-lb/in | ASTM D4812 |

| Thermal Properties | Metric | English | Comments |
|---|--|--|-----------|
| CTE, linear | 63.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ | 35.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ | ASTM D696 |
| | @Temperature 20.0 $^{\circ}\text{C}$ | @Temperature 68.0 $^{\circ}\text{F}$ | |
| Deflection Temperature at 0.46 MPa (66 psi) | 98.9 $^{\circ}\text{C}$ | 210 $^{\circ}\text{F}$ | ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 60.0 $^{\circ}\text{C}$ | 140 $^{\circ}\text{F}$ | ASTM D648 |

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