

Asahi Kasei Thermylene® P6-40FB-Y947 40% Glass Fiber/Glass Bead, Heat Stabilized

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% 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-P6-40FB-Y947-40-Glass-FiberGlass-Bead-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Tensile Modulus	3.59 GPa	520 ksi	ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	3.65 GPa	530 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	3.20 J/cm	6.00 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	32.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	18.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	166 °C	330 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	ASTM D648

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