

Asahi Kasei Thermylene® P6-40FG-0100 40% Glass Fiber Reinforced, 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-P6-40FG-0100-40-Glass-Fiber-Reinforced-Heat-Stabilized.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Melt Flow	2.5 g/10 min	2.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D785
Tensile Strength, Yield	96.5 MPa	14000 psi	ASTM D638
Elongation at Yield	2.0 %	2.0 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	6.55 GPa	950 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
Izod Impact, Unnotched	5.87 J/cm	11.0 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)	163 °C	325 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 °C	300 °F	ASTM D648

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