

Asahi Kasei Thermylene® P6-30FG-0570 30% Glass Fiber Reinforced, Flame Retardant

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-0570-30-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955
Melt Flow	4.0 g/10 min	4.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ASTM D785
Tensile Strength, Yield	79.3 MPa	11500 psi	ASTM D638
Elongation at Yield	3.0 %	3.0 %	ASTM D638
Tensile Modulus	6.62 GPa	960 ksi	ASTM D638
Flexural Strength	116 MPa	16800 psi	ASTM D790
Flexural Modulus	6.62 GPa	960 ksi	ASTM D790
Izod Impact, Notched	1.12 J/cm	2.10 ft-lb/in	ASTM D256
Izod Impact, Unnotched	6.94 J/cm	13.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	43.2 $\mu\text{m/m-}^{\circ}\text{C}$	24.0 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	160 $^{\circ}\text{C}$	320 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	148 $^{\circ}\text{C}$	298 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	V-0	V-0	0.0279 in thickness

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