

Asahi Kasei Thermylene® F6-30FG-0100 30% Glass Fiber Reinforced, Chemically Coupled

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Information provided by Asahi Thermofil

Order this product through the following link:

http://www.lookpolymers.com/polymer_Asahi-Kasei-Thermylene-F6-30FG-0100-30-Glass-Fiber-Reinforced-Chemically-Coupled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955
Melt Flow	3.5 g/10 min	3.5 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ASTM D785
Tensile Strength, Yield	72.4 MPa	10500 psi	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Flexural Strength	86.2 MPa	12500 psi	ASTM D790
Flexural Modulus	3.86 GPa	560 ksi	ASTM D790
Izod Impact, Notched	1.49 J/cm	2.80 ft-lb/in	ASTM D256
Izod Impact, Unnotched	7.47 J/cm	14.0 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear	46.8 $\mu\text{m}/\text{m}\cdot\text{°C}$	26.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	122 °C	251 °F	ASTM D648

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