

E-Polymers TEKAMID® TB120SG30 Impact Modified, 30% Glass Fiber Reinforced PA6, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass Filled, Impact Grade

Material Notes:

30% Glass Fiber reinforced, High impact resistance Information provided by E-Polymers Co. Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_E-Polymers-TEKAMID-TB120SG30-Impact-Modified-30-Glass-Fiber-Reinforced-PA6-DAM.php

Physical Properties	Metric	English	Comments
Density	1.33 g/cc	0.0480 lb/in ³	ASTM D792
Water Absorption	0.90 %	0.90 %	23°C/24 hr; ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D786
Tensile Strength, Yield	145 MPa	21000 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	190 MPa	27600 psi	ASTM D790
Flexural Modulus	6.30 GPa	914 ksi	ASTM D790
Izod Impact, Notched	2.10 J/cm	3.93 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 µm/m-°C	22.2 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	ASTM D2133
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Arc Resistance	180 sec	180 sec	Tungsten electrode; ASTM D495

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	80.0 - 90.0 °C	176 - 194 °F	

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