

E-Polymers TEKAMID® TB120G45 , 45% Glass Fiber Reinforced PA6, DAM

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber Filled

Material Notes:

45% Glass Fiber Reinforced, High Strength. Information provided by E-Polymers Co. Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_E-Polymers-TEKAMID-TB120G45-45-Glass-Fiber-Reinforced-PA6-DAM.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption	0.90 %	0.90 %	23°C/24 hr; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	65	65	ASTM D786
Tensile Strength, Yield	200 MPa	29000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Yield Strength	280 MPa	40600 psi	ASTM D790
Flexural Modulus	11.5 GPa	1670 ksi	ASTM D790
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ASTM D2133
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ASTM D648
Flammability, UL94	HB	HB	

Processing Properties	Metric	English	Comments
Processing Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	90.0 - 110 °C	194 - 230 °F	

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