

E-Polymers TEKAMID® TB110HI , High Impact PA6, DAM

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

Material Notes:

High Impact resistance at low temperature Information provided by E-Polymers Co. Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_E-Polymers-TEKAMID-TB110HI-High-Impact-PA6-DAM.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D792
Water Absorption	1.4 %	1.4 %	23°C/24 hr; ASTM D570
Linear Mold Shrinkage	0.014 cm/cm	0.014 in/in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM D786
Tensile Strength, Yield	65.0 MPa	9430 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Flexural Yield Strength	70.0 MPa	10200 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	4.00 J/cm	7.49 ft-lb/in	ASTM D256
Izod Impact, Unnotched	NB @Thickness 3.20 mm	NB @Thickness 0.126 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	ASTM D696
Melting Point	220 °C	428 °F	ASTM D2133
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	65.0 °C	149 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Arc Resistance Electrical Properties	180 sec Metric	180 sec English	Tungsten electrode; ASTM D495 Comments
Processing Properties	Metric	English	Comments
Processing Temperature	245 - 260 °C	473 - 500 °F	
Mold Temperature	40.0 - 60.0 °C	104 - 140 °F	

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