

E-Polymers TEKALLOY® F50G50 50% Glass Fiber Reinforced PBT/PET Alloy

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , PBT + PET Blend, Glass Filled , Polyethylene Terephthalate (PET)

Material Notes:

PC/ABS, PC/PBT, PC/PET: TEKALLOY is high performance polymer alloy resins (PC/ABS, PC/PBT, and PC/PET, etc) manufactured by E-Polymers. PC/ABS has excellent mechanical properties, high heat resistance, high impact strength, and dimensional stability. PC/PBT is usually used for automotive applications with good resistance against oils and solvents as well as high impact. PC/PET has an excellent surface and its high heat resistance allows it to be employed in housing for electrical appliances. Information Provided by E-Polymers Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_E-Polymers-TEKALLOY-F50G50-50-Glass-Fiber-Reinforced-PBTPET-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.73 g/cc	1.73 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	156.96 MPa	22765 psi	ASTM D638
Elongation at Break	1.5 %	1.5 %	ASTM D638
Flexural Strength	245.25 MPa	35571 psi	ASTM D790
Flexural Modulus	16.19 GPa	2348 ksi	ASTM D790
Izod Impact, Notched	0.981 J/cm	1.84 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	225 °C	437 °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
Melt Temperature	270 - 300 °C	518 - 572 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	

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