



## TESTER B1GF4

**Product Description** PBT with 20%GF reinforced, used for electrical components, auto parts, industry parts

**Material Status** Commercial: Active.

**Availability** Africa & Middle East, Asia Pacific, Europe, Latin America, North America.

**Features** High rigidity, high mechanical strength, high impact and easy processing with good appearance .

**Processing Method** Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific gravity	1.45	g/cm <sup>3</sup>	ISO 1183
Water absorption (24 hr)	0.4	%	DIN 53495/1L
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	7100	MPa	ISO 527
Flexural strength	170	MPa	ISO 178
Charpy impact strength, +23°C	58	KJ/m <sup>2</sup>	ISO 179
Charpy impact strength notched,+23°C	8	KJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
HDT, 1.8 MPa under load	205	°C	ISO 75
HDT, 0.45 MPa under load	220	°C	ISO 75
CLTE(Transverse/parallel)	3-4	10 <sup>-5</sup> /K	DIN 53752
Thermal conductivity	0.25	W/(m·k)	DIN 52612
Specific heat	1.6	J/(g·k)	IEC 1006
Flammability	Nominal Value	Unit	Test Method
According UL standard	HB	Class	UL 94
Electrical	Nominal Value	Unit	Test Method
Dielectric constant ,1MHz	3.7		IEC 60250
Dissipation factor,1MHz	0.0012		IEC 60250
Volume resistivity	10 <sup>16</sup>	Ω·m	IEC 60093
Surface resistivity	10 <sup>13</sup>	Ω	IEC 60093
CTI	300		IEC 60112
Injection	Nominal Value	Unit	Test Method
Melting point,DSC	220-225	°C	ISO 11357-3
Melt volume flow rate,MVR	14	cm <sup>3</sup> /10min	ISO 1133
Melt temperature range, Injection molding/extrusion	250-275	°C	ISO 1133
Mold temperature range	60-100	°C	



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### **Disclaimer**

#### **Sales products:**

This information and technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved.

Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating TENSURE materials or products will be safe and suitable for use under end-use conditions.

Our products are sold and our advisory service is given in accordance with the current version of our General Conditions of Sale and Delivery.

#### **Test figures:**

Above figures were measured under the condition of 23 °C and RH 50% base on injection molded specimens .They are typical figures, not specifications.

Kindly note that, under certain conditions,

The properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and coloring.

To preclude any risk to the health and well-being of the machine operatives, tolerance limits for the work environment must be ensured by the provision of efficient exhaust ventilation and fresh air at the workplace.

The prescribed processing temperatures should not be substantially exceeded.

Since excessively high temperatures are generally the result of operator error or defects in the heating system, special care and controls are essential in these areas.