



## TESTER B1GF6FR

**Product Description** PBT with 30% GF reinforced, flame retardant, 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	1.6	g/cm <sup>3</sup>	ISO 1183
Water absorption, at 23°C	0.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	8800	MPa	ISO 527-1/-2
Tensile strength, break	128	MPa	ISO 527-1/-2
Tensile elongation, break	4.7	%	ISO 527-1/-2
Flexural modulus	8600	MPa	ISO 178
Flexural strength	198	MPa	ISO 178
Charpy impact strength, +23°C	76	KJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, notched,+23°C	14	KJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
HDT, 1.8 MPa under load	216	°C	ISO 75-1/-2
HDT, 0.45 MPa under load	222	°C	ISO 75-1/-2
Flammability	Nominal Value	Unit	Test Method
According UL standard	1.5	mm	UL-94 V0
Electrical	Nominal Value	Unit	Test Method
Dielectric constant ,at 100Hz	3.3		IEC 60250
Dissipation factor, at 100Hz	0.001		IEC 60250
Volume resistivity	1*10 <sup>13</sup>	Ω·m	IEC 60093
Surface resistivity	1*10 <sup>13</sup>	Ω	IEC 60093
Injection	Nominal Value	Unit	Test Method
Melting point, DSC	223	°C	DIN 53765
Melt volume flow rate,MVR,250°C/5kg	46	cm <sup>3</sup> /10min	ISO 1133
Melt temperature range, Injection molding	250-275	°C	
Mold temperature range	60-100	°C	



## TESTER B3GF6FR

### **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.