



## TELOY 6500

**Product Description** Modified PC material, used for the automotive industry, Electrical and Electronics and consumer applications.

**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	1.12	g/cm <sup>3</sup>	ASTM D 792
Water absorption (24 hr)	0.60	%	ASTM D 570
Mechanical	Nominal Value	Unit	Test Method
Tensile strength, break	50	MPa	ASTM D 638
Tensile elongation, break	88	%	ASTM D 638
Flexural strength	75	MPa	ASTM D 790
Flexural modulus	2100	MPa	ASTM D 790
Notched Izod impact	529	J/m	ASTM D 256
Thermal	Nominal Value	Unit	Test Method
HDT, 0.45MPa,6.4mm,unannealed	110	°C	ASTM D 648
HDT, 1.82MPa,6.4mm,unannealed	104	°C	ASTM D 648
Thermal conductivity	0.3	W/(m*k)	ASTM C 177
Flammability	Nominal Value	Unit	Test Method
According UL standard	HB	Class	UL 94
Electrical	Nominal Value	Unit	Test Method
Volume resistivity	10 <sup>14</sup>	10 <sup>-4</sup>	ASTM D 257
Dielectric constant ,1MHz	3	10 <sup>-4</sup>	ASTM D 149
Dissipation factor,1MHz	0.007		ASTM D 150
Injection	Nominal Value	Unit	Test Method
Melt flow rate,MFR	20	g/10min	ASTM D 1238
Melt temperature range, Injection molding/extrusion	240-270	°C	
Mold temperature range	70-90	°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.