

Pocan T 7323 000000

PBT+PET, 20 % glass fibers, injection molding, improved surface finish, increased temperature peak load

ISO Shortname: ISO 7792-1-PBT+PET, GHMR, 09-070, GF20

Property	Test Condition	Unit	Standard	guide value
Rheological properties				
C Melt volume-flow rate	260 °C; 2.16 kg	cm ³ /(10 min)	ISO 1133-1	15
C Molding shrinkage, parallel	60x60x2; 270 °C / MT 90°C; 600 bar	%	ISO 294-4	0.4
C Molding shrinkage, transverse	60x60x2; 270 °C / MT 90°C; 600 bar	%	ISO 294-4	1.0
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.2
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	7500
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	120
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.2
C Tensile creep modulus	1 h	MPa	ISO 899-1	7200
C Tensile creep modulus	1000 h	MPa	ISO 899-1	6100
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	40
C Charpy impact strength	-30 °C	kJ/m ²	ISO 179-1eU	35
C Charpy notched impact strength	23 °C	kJ/m ²	ISO 179-1eA	< 10
C Charpy notched impact strength	-30 °C	kJ/m ²	ISO 179-1eA	< 10
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	35
Izod impact strength	-30 °C	kJ/m ²	ISO 180-1U	35
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	< 10
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	< 10
Izod notched impact strength	-40 °C	kJ/m ²	ISO 180-1A	< 10
Flexural modulus	2 mm/min	MPa	ISO 178-A	7500
Flexural strength	2 mm/min	MPa	ISO 178-A	195
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.5
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	195
Ball indentation hardness		N/mm ²	ISO 2039-1	175
Thermal properties				
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	225 - 250
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	195
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	220
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	205
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.3
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.9
C Burning behavior UL 94 (1.6 mm)	1.6 mm	Class	UL 94	HB
Burning behavior UL 94	0.8 mm	Class	UL 94	HB
C Oxygen index	Method A	%	ISO 4589-2	21



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Property	Test Condition	Unit	Standard	guide value
Thermal conductivity	23 °C	W/(m·K)	ISO 8302	0.26
Resistance to heat (ball pressure test)		°C	IEC 60695-10-2	215
Temperature index (Tensile strength)	20000 h; 1.5 mm	°C	IEC 60216-1	150
Halving interval (Tensile strength)	1.5 mm	°C	IEC 60216-1	10.2
Temperature index (Tensile impact strength)	20000 h; 1.5 mm	°C	IEC 60216-1	130
Halving interval (Tensile impact strength)	1.5 mm	°C	IEC 60216-1	13.5
Temperature index (Electric strength)	20000 h	°C	IEC 60216-1	150
Halving interval (Electric strength)		°C	IEC 60216-1	10.2
Glow wire test (GWFI)	2.0 mm	°C	IEC 60695-2-12	750
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	100 Hz	-	IEC 60250	3.8
C Relative permittivity	1 MHz	-	IEC 60250	3.6
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	18
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	170
C Volume resistivity		Ohm·m	IEC 60093	>1E13
C Surface resistivity		Ohm	IEC 60093	>1E15
C Electric strength	1 mm	kV/mm	IEC 60243-1	24
C Comparative tracking index CTI	Solution A	V	IEC 60112	250
Electrolytic corrosion		Rating	IEC 60426	A 1
Other properties (23 °C)				
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	0.4
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	0.2
C Density		kg/m ³	ISO 1183	1470
Bulk density		kg/m ³	ISO 60	800
Material specific properties				
C Viscosity number		cm ³ /g	ISO 1628-5	92
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	270
C Injection molding-Mold temperature		°C	ISO 294	90
Processing recommendations				
Drying time circulating air dryer		h	-	4-8
Drying temperature circulating air dryer		°C	-	120
Residual moisture content		%	Acc. to Karl Fischer	0.00-0.02
Melt temperature (Tmin - Tmax)		°C	-	260-280
Mold temperature		°C	-	80-100

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.



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Test values

Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. 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 the coloring.

Processing note

Under the recommended processing conditions small quantities of decomposition product may be given off during processing. 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 in accordance with the Safety Data Sheet. In order to prevent the partial decomposition of the polymer and the generation of volatile decomposition products, 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.

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