Pocan B 4225 000000

PBT, injection molding grade with 20 % glass fibres, UL 94 V-0 at 1.6 mm (all colors), good strength/stiffness, chemical resitance and dimensional stability, Electrical Sector: Plug connectors, bobbins, relaies, lamp sockets

ISO/ ASTM

ISO Shortname: ISO 7792-1-PBT,MFHR,10-070,GF20

	Property	Test Condition	Unit	Standard	Value
Rheological properties					
	Göttfert melt viscosity	165 1/s; 260 °C	Pa·s	Lanxess-Methode	250
C	Melt volume-flow rate	260 °C; 2.16 kg	cm³/(10 min)	ISO 1133	19
	Molding shrinkage, parallel	150x105x3; 260 °C / MT 80 °C; 600 bar	%	acc. ISO 2577	0.35
	Molding shrinkage, transverse	150x105x3; 260 °C / MT 80 °C; 600 bar	%	acc. ISO 2577	1.2
	Post- shrinkage, parallel	150x105x3; 150 °C; 1 h	%	acc. ISO 2577	0.15
	Post- shrinkage, transverse	150x105x3; 150 °C; 1 h	%	acc. ISO 2577	0.3
C	Molding shrinkage, parallel	60x60x2; 260 °C / MT 80 °C; 600 bar	%	ISO 294-4	0.49
C	Molding shrinkage, transverse	60x60x2; 600 bar	%	ISO 294-4	1.08
	Post- shrinkage, parallel	60x60x2; 150 °C; 1 h	%	ISO 294-4	0.09
	Post- shrinkage, transverse	60x60x2; 150 °C; 1 h	%	ISO 294-4	0.19
Mechanical properties (23 °C/50 % r. h.)					
C	Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	8000
C	Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	125
C	Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	2.5
C	Tensile creep modulus	1 h	MPa	ISO 899-1	7300
C	Tensile creep modulus	1000 h	MPa	ISO 899-1	6900
C	Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	40
C	Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	40
C	Charpy notched impact strength	23 °C	kJ/m²	ISO 179-1eA	< 10
C	Charpy notched impact strength	-30 °C	kJ/m²	ISO 179-1eA	< 10
	Izod impact strength	23 °C	kJ/m²	ISO 180-1U	40
	Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	40
	Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	< 10
	Izod notched impact strength	-40 °C	kJ/m²	ISO 180-1A	< 10
	Flexural modulus	2 mm/min	MPa	ISO 178	6500
	Flexural strength	2 mm/min	MPa	ISO 178	185
	Flexural strain at flexural strength	2 mm/min	%	ISO 178	3.2
	Ball indentation hardness		N/mm²	ISO 2039-1	200

Thermal properties					
C	Melting temperature	10 °C/min	°C	ISO 11357-1,-3	225
C	Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	210
C	Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	220
C	Temperature of deflection under load	8.00 MPa	°C	ISO 75-1,-2	126
C	Vicat softening	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	1.2
C	Burning behavior UL 94 (1.6 mm)	1.6 mm	Class	UL 94	V-0
C	Burning behavior UL 94	0.8 mm	Class	UL 94	V-2
C	Burning behavior UL 94-5V	3.5 mm	Class	UL 94	5VA
C	Oxygen index	Method A	%	ISO 4589-2	32
	Thermal conductivity	23 °C	W/(m·K)	ISO 8302	0.23
	Resistance to heat (ball pressure test)		°C	IEC 60695-10-2	215
	Temperature index (Tensile strength)	20000 h	°C	IEC 60216-1	140
	Halving interval (Tensile strength)		°C	IEC 60216-1	11.7
	Relative temperature index (Tensile strength)		°C	UL 746B	140
	Temperature index (Tensile impact strength)	20000 h	°C	IEC 60216-1	135
	Halving interval (Tensile impact strength)		°C	IEC 60216-1	9.2
	Relative temperature index (Tensile impact strength)		°C	UL 746B	130
	Temperature index (Electric strength)	20000 h	°C	IEC 60216-1	145
	Halving interval (Electric strength)		°C	IEC 60216-1	12.4
	Relative temperature index (Electric strength)		°C	UL 746B	130
	Glow wire test (GWFI)	2.0 mm	°C	IEC 60695-2-12	960
	Glow wire test (GWIT)	1.6 mm	°C	IEC 60695-2-13	700
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	Electric strength	1 mm	kV/mm	IEC 60243-1	29
C	Comparative tracking index CTI	Solution A	Rating	IEC 60112	200
	Comparative tracking index CTI M	Solution B	Rating	IEC 60112	<100 M
	Electrolytic corrosion		Rating	IEC 60426	A 1

Other properties (23 °C)					
C	Density		kg/m³	ISO 1183	1570
	Glass fiber / glass bead / filler content		%	ISO 3451-1	20
	Bulk density		kg/m³	ISO 60	800
Material specific properties					
C	Viscosity number		cm³/g	ISO 1628-5	97
Processing conditions for test specimens					
C	Injection molding-Melt temperature		°C	ISO 294	260
C	Injection molding-Mold temperature		°C	ISO 294	80
Processing recommendations					
	Drying temperature		°C	-	120
	Drying time circulating air dryer		h	-	8-Apr
	Residual moisture content		%	Acc. to Karl Fischer	0-0.02
	Melt temperature		°C	-	240-260
	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,

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 ensure

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