

Pocan B 3235 000000

PBT, 30 % glass fibers, injection molding

ISO / ASTM

ISO Shortname: ISO 7792-1-PBT, GHMR, 09-100, GF30

Property	Test Condition	Unit	Standard	guide value
Mechanical properties (23 °C/50 % r. h.)				
Tensile modulus		lb/in ²	ASTM D 638	1378000
Tensile elongation at break		%	ASTM D 638	2.5
Tensile stress at break		lb/in ²	ASTM D 638	19300
Flexural modulus		lb/in ²	ASTM D 790	1102000
Flexural strength		lb/in ²	ASTM D 790	27600
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	0.1
C Density		kg/m ³	ISO 1183	1550
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 time circulating air dryer		h	-	4-8
Residual moisture content		%	Acc. to Karl Fischer	0-0.02

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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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