Pocan B3233XHR 000000

PBT, 30% glass fibers, injection molding, hydrolysis stabilized, improved flowability

ISO Shortname: ISO 20028-PBT,GF30,GHMRW,09-080

Property	Test Condition	Unit	Standard	guide value
Rheological properties				
C Melt volume-flow rate	260 °C; 2.16 kg	cm³/(10 min)	ISO 1133-1	18
C Molding shrinkage, parallel	60x60x2; 600 bar	%	ISO 294-4	0.4
C Molding shrinkage, transverse	60x60x2; 600 bar	%	ISO 294-4	1.1
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1
Post- shrinkage, transverse	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.1
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	7900
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	105
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.6
C Charpy impact strength	23 °C	kJ/m²	ISO 179-1eU	60
C Charpy impact strength	-30 °C	kJ/m²	ISO 179-1eU	55
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 180-1C	55
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	11
Flexural modulus	2 mm/min	MPa	ISO 178-A	7600
Flexural strength	2 mm/min	MPa	ISO 178-A	175
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.8
Flexural stress at 3.5 % strain	2 mm/min	MPa	ISO 178-A	170
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	200
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	220
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	205
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10^{-4}/K	ISO 11359-1,-2	0.2
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10^{-4}/K	ISO 11359-1,-2	1.5
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB
Resistance to heat (ball pressure test)		°C	IEC 60695-10-2	210
Glow wire test (GWFI)	0.75 mm	°C	IEC 60695-2-12	725
Glow wire test (GWFI)	1.5 mm	°C	IEC 60695-2-12	725
Glow wire test (GWFI)	3.0 mm	°C	IEC 60695-2-12	750
Glow wire test (GWIT)	0.75 mm	°C	IEC 60695-2-13	750
Glow wire test (GWIT)	1.5 mm	°C	IEC 60695-2-13	750
Glow wire test (GWIT)	3.0 mm	°C	IEC 60695-2-13	775
Electrical properties (23 °C/50 % r. h.)				
C Volume resistivity		Ohm·m	IEC 60093	>1E13
C Surface resistivity		Ohm	IEC 60093	>1E16
C Electric strength	1 mm	kV/mm	IEC 60243-1	34
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	475

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Property	Test Condition	Unit	Standard	guide value
Other properties (23 °C)				
C Density		kg/m³	ISO 1183	1480
Bulk density		kg/m³	ISO 60	700
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 circulating air dryer		°C	-	120
Drying time circulating air dryer		h	-	4-8
Residual moisture content		%	Acc. to Karl Fischer	0.00-0.02
Melt temperature (Tmin - Tmax)		°C	-	250-270
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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Typical Properties

Property data is provided as general information only. Property values are approximate and are not part of the product specifications.

Flammability

Flammability results are based on small-scale laboratory tests for purposes of relative comparison and are not intended to reflect the hazards presented by this or any other material under actual fire conditions.

Health and Safety

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling LANXESS products mentioned in this publication. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets (MSDS) and product labels. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS. For materials that are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturer(s) must be followed.

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Color and Visual Effects

Type and quantity of pigments or additives used to obtain certain colors and special visual effects can affect mechanical properties.

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