

Pocan ECOT7142 901510

PET+PBT, 40% glass fibers/mineral, injection molding, high thermal dimension stability, 50% sustainable raw materials - recycled

ISO Shortname: ISO 20028-PET+PBT,(GF+MD)40 REC,GMR,09-120

Property	Test Condition	Unit	Standard	guide value ¹
Rheological properties				
C Molding shrinkage, parallel	60x60x2; 280°C / WZ 110°C; 600 bar	%	ISO 294-4	0.2
C Molding shrinkage, transverse	60x60x2; 280°C / WZ 110°C; 600 bar	%	ISO 294-4	0.8
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	12000
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	1.6
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	35
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	<10
Flexural modulus	2 mm/min	MPa	ISO 178-A	12000
Flexural strength	2 mm/min	MPa	ISO 178-A	180
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	1.8
Thermal properties				
C Melting temperature	10 °C/min	°C	ISO 11357-1,-3	260
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	205
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	250
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	220
Glow wire test (GWFI)	0.75 mm	°C	IEC 60695-2-12	750
Glow wire test (GWFI)	1.5 mm	°C	IEC 60695-2-12	750
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	775
Glow wire test (GWIT)	1.5 mm	°C	IEC 60695-2-13	775
Glow wire test (GWIT)	3.0 mm	°C	IEC 60695-2-13	775
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1680
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	280
C Injection molding-Mold temperature		°C	ISO 294	110
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	-	270-290
Mold temperature		°C	-	100-130

Notes



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1 Typical properties: these are not to be construed as specifications

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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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.

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