

DATA SHEET
LANXESS
 Energizing Chemistry

Pocan ECOB3233HRLT 904040

PBT, 30% glass fibers, injection molding, improved laser-transparency, improved weldability, hydrolysis stabilized, NIR-laser transparent coloring (black), manufactured by using 30% sustainable raw materials from ISCC-certified sources - mass balanced

ISO Shortname: ISO 20028-PBT,GF30,GHMRW,09-100

Property	Test Condition	Unit	Standard	guide value ¹
Rheological properties				
C Molding shrinkage, parallel	60x60x2	%	ISO 294-4	0.3
C Molding shrinkage, transverse	60x60x2	%	ISO 294-4	0.8
Post- shrinkage, parallel	60x60x2; 120 °C; 4 h	%	ISO 294-4	0.05
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	10000
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	140
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	2.8
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	60
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	53
Flexural modulus	2 mm/min	MPa	ISO 178-A	9600
Flexural strength	2 mm/min	MPa	ISO 178-A	230
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.2
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	190
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	215
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	1.0
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	200
Electrical properties (23 °C/50 % r. h.)				
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	275
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1520
Bulk density		kg/m ³	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
Residual moisture content		%	Acc. to Karl Fischer	0.00 - 0.02
Melt temperature (Tmin - Tmax)		°C	-	250-270
Mold temperature		°C	-	60-100

Notes

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



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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.

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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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