

Data sheet

Pocan KU1-7625LT 904040

PBT+PC, 20 % glass fibers, injection molding, low tendency to warp, improved surface finish, improved laser-transparency, NIR-laser transparent coloring (black)

ISO Shortname: ISO 20028-PBT+PC,GF20,GHMR,09-050

Property	Test Condition	Unit	Standard	guide value
Rheological properties				
Göttfert melt viscosity	165 1/s; 260 °C	Pa·s	Lanxess-Methode	400
C Melt volume-flow rate	260 °C; 5 kg	cm ³ /(10 min)	ISO 1133-1	40
Molding shrinkage, parallel	150x105x3; 260 °C / MT 80 °C; 600 bar	%	acc. ISO 2577	0.45
Molding shrinkage, transverse	150x105x3; 260 °C / MT 80 °C; 600 bar	%	acc. ISO 2577	0.5
Post- shrinkage, parallel	150x105x3; 110 °C; 1 h	%	acc. ISO 2577	0.15
Post- shrinkage, transverse	150x105x3; 110 °C; 1 h	%	acc. ISO 2577	0.2
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	5100
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	75
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	4.0
C Charpy impact strength	23 °C	kJ/m ²	ISO 179-1eU	35
Izod impact strength	23 °C	kJ/m ²	ISO 180-1U	30
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-1A	< 10
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-1A	< 10
Izod notched impact strength	-40 °C	kJ/m ²	ISO 180-1A	< 10
Flexural modulus	2 mm/min	MPa	ISO 178-A	4700
Flexural strength	2 mm/min	MPa	ISO 178-A	130
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	4.5
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	110
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	145
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB
Other properties (23 °C)				
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	0.3
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	0.1
C Density		kg/m ³	ISO 1183	1400
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

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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