

# Datasheet

## Pocan KU1-7625 901510

PBT+PC, 20% glass fibers, injection molding, low tendency to warp, improved surface finish

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

Property	Test Condition	Unit	Standard	guide value <sup>1</sup>
<b>Rheological properties</b>				
C Melt volume-flow rate	260 °C; 5 kg	cm <sup>3</sup> /(10 min)	ISO 1133-1	30
<b>Mechanical properties (23 °C/50 % r. h.)</b>				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	5500
C Tensile Stress at break	5 mm/min	MPa	ISO 527-1,-2	85
C Tensile Strain at break	5 mm/min	%	ISO 527-1,-2	3.4
C Charpy impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eU	40
C Charpy impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eU	40
C Charpy notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 179-1eA	<10
C Charpy notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 179-1eA	<10
Izod impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-1U	35
Izod impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1U	40
Izod notched impact strength	23 °C	kJ/m <sup>2</sup>	ISO 180-1A	< 10
Izod notched impact strength	-30 °C	kJ/m <sup>2</sup>	ISO 180-1A	< 10
Izod notched impact strength	-40 °C	kJ/m <sup>2</sup>	ISO 180-1A	< 10
Flexural modulus	2 mm/min	MPa	ISO 178-A	5500
Flexural strength	2 mm/min	MPa	ISO 178-A	140
Flexural strain at flexural strength	2 mm/min	%	ISO 178-A	3.5
<b>Thermal properties</b>				
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	115
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	150
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	145
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.4
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.7
C Burning behavior UL 94	1.5 mm	Class	UL 94	HB
C Burning behavior UL 94	0.75 mm	Class	UL 94	HB
<b>Other properties (23 °C)</b>				
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 <sup>3</sup>	ISO 1183	1390
Bulk density		kg/m <sup>3</sup>	ISO 60	700
<b>Material specific properties</b>				
C Viscosity number		cm <sup>3</sup> /g	ISO 1628-5	62

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Property	Test Condition	Unit	Standard	guide value <sup>1</sup>
<b>Processing conditions for test specimens</b>				
C Injection molding-Melt temperature		°C	ISO 294	260
C Injection molding-Mold temperature		°C	ISO 294	80

#### Notes

**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.

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