

## Lanxess Pocan® KU 1-7635 901510 PBT +

### Material Notes:

PBT+PC, 30% glass fibers, injection molding, low tendency to warp, improved surface finish



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Physical Properties	Metric	English	Comments
Density	<u>1.50 g/cc</u>	<u>0.0542 lb/in<sup>3</sup></u>	ISO 1183
Water Absorption	0.30 %	0.30 %	Test Sim. to ISO 62
Moisture Absorption at	0.10 %	0.10 %	23°C/50% R.H.; Test Sim. to ISO
Melt Flow	<u>18 g/10 min</u> @ Load 2.16 kg, Temperature 260 °C	<u>18 g/10 min</u> @ Load 4.76 lb, Temperature 500 °F	Calculated from MVR using melt density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	<u>100 MPa</u>	<u>14500 psi</u>	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	<u>7.50 GPa</u>	<u>1090 ksi</u>	ISO 527-1/-2
Charpy Impact Unnotched	<u>5.00 J/cm<sup>2</sup></u> @Temperature 23.0 °C	<u>23.8 ft-lb/in<sup>2</sup></u> @Temperature 73.4 °F	ISO 179/1eU

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	<u>150 V</u>	<u>150 V</u>	IEC 60112

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	<u>30.0 µm/m-°C</u>	<u>16.7 µin/in-°F</u>	ISO 11359-1/-2
CTE, linear, Transverse to Flow	<u>80.0 µm/m-°C</u>	<u>44.4 µin/in-°F</u>	ISO 11359-1/-2
Melting Point	<u>225 °C</u>	<u>437 °F</u>	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46	<u>165 °C</u>	<u>329 °F</u>	ISO 75-1/-2
Deflection Temperature at 1.8	<u>120 °C</u>	<u>248 °F</u>	ISO 75-1/-2

<a href="#">Flammability, UL94</a>	HB @Thickness 0.800 mm	HB @Thickness 0.0315 in	IEC 60695-11-10
	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	IEC 60695-11-10

Processing Properties	Metric	English	Comments
Melt Temperature	<u>260 °C</u>	<u>500 °F</u>	Injection Molding; ISO 294
Mold Temperature	<u>80.0 °C</u>	<u>176 °F</u>	Injection Molding; ISO 10724