

**WITCOM**

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**Data Sheet Cawiton PR13943 , based on Polybutyleneterephthalate (PBT)**

20% GF reinforced

Latest revision: Februari 2021

Properties	Test methods	Units	Cawiton PR13943
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**Physical properties**

Specific gravity	ISO 1183	g/cm <sup>3</sup>	1,45
Water absorption at saturation, 23 °C	ISO 62	%	0,4
Humidity absorption, 23 °C/50 % r.h.	ISO 62	%	0,2
Mould shrinkage (flow direction, 3 mm)	ISO 2577	%	0,5 – 0,8

**Mechanical properties**

Tensile strength (max.)	ISO 527	MPa	110
Elongation at break	ISO 527	%	3,5
Flexural strength	ISO 178	MPa	170
Flexural modulus	ISO 178	GPa	5,8
IZOD impact strength, notched	ISO 180/1eA	kJ/m <sup>2</sup>	6,0
IZOD impact strength, unnotched	ISO 180/1eU	kJ/m <sup>2</sup>	30

**Thermal properties**

Heat distortion temperature (1,81 MPa)	ISO 75	°C	205
Relative temperature index, 3 mm, with impact	UL 746B	°C	120
Coefficient of linear thermal expansion	ISO 11359	K-1·10 <sup>-5</sup>	3,5

**Flammability**

Burning behaviour	IEC 60695-11-10	-	HB @ 1,6 mm
UL recognition	UL94	-	-

**Electrical properties**

Surface resistivity	ASTM D257	Ω/sq	10 <sup>14</sup>
Comparative tracking index	IEC 60112	V	-
Glow wire rating, 1,6 mm	IEC 695-2-1	°C	-

**Processing conditions (injection moulding)**

Drying conditions (dehumidifying drier)	: 3 - 5 Hours @ 120 °C
Maximum allowable moisture content	: 0,02 %
Melt temperature	: 250 - 270 °C
Mould temperature	: 40 - 100 °C
Screw speed	: 0,1 - 0,2 m/s
Back pressure	: 0 - 1,0 MPa
Injection pressure	: Keep to a minimum
Injection speed	: Fast ram speed
Hold pressure	: Keep to a minimum

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