

Material datasheet

Material: PAS-PC GF30

mechanical characteristics

Characteristic	Standard	Unit	Value
Yield stress (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	87
Yield strain (dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	4
Tensile strength (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	85
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	6
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	4400
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm ²)	190

thermal characteristics

Characteristic	Standard	Unit	Value
max. service temperature (continuous)		°C	120
max. service temperature (short-term)		°C	140
Thermal conductivity (+23°C)	DIN 52612	W/(m×K)	0.32

combustibility characteristics

Characteristic	Standard	Unit	Value
UL94 flammability	IEC 60695-11-10	class	HB

electrical characteristics

Characteristic	Standard	Unit	Value
Surface resistivity (dry)	DIN IEC 60093 (DIN VDE 0303-30) ASTM D 257	Ω	10 ¹⁴

These data are guideline values which are subject to change depending on the type of manufacture of the test specimens and stress. These data are based on our own experience and on manufacturer's data. However, they are provided without guarantee, since each application is different and must be considered with reference to its specific influence parameters.

physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm ³	1.42

chemical characteristics

Characteristic	Standard	Unit	Value
UV light and weathering			conditionally stable
Physiology	Faigle		unsuitable