

## Material datasheet Material: PAS-60 GF50

### mechanical characteristics

Characteristic	Standard	Unit	Value
Tensile stress at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm <sup>2</sup> )	235
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	3
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm <sup>2</sup> )	16000
Charpy impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m <sup>2</sup>	100
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m <sup>2</sup>	22

### thermal characteristics

Characteristic	Standard	Unit	Value
Heat deflection temperature HDT/A (1.8 N/mm <sup>2</sup> )	ISO 75-1/-2 DIN 53461 ASTM D 648	°C	215

### combustibility characteristics

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

### electrical characteristics

Characteristic	Standard	Unit	Value
Dielectric constant, relative permittivity (1 MHz, dry)	DIN IEC 60250 (DIN VDE 0303-4) ASTM D 150		4.2
Dielectric loss factor (1 MHz, dry)	DIN IEC 60250 (DIN VDE 0303-4) ASTM D 150		0.014

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 <sup>3</sup>	1.55
Moisture absorption at saturation - standard climate (23°C, 50% RF)	ISO 62 ISO 1110	%	1.5
Water absorption at saturation (water storage 23°C)	ISO 62 DIN 53495 ASTM D 570	%	4.8

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faigle Kunststoffe GmbH / Landstraße 31 / AT-6971 Hard / DVR:0575607/ Company Register: FN 303246 a / FB Court Feldkirch / UID: ATU63895404/ ARA:4998