

Material datasheet

Material: PAS-L GF30 (vormals / formerly PAS-LG)

mechanical characteristics

Characteristic	Standard	Unit	Value
Tensile strength (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	135
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	2.5
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	9200
Max. permissible pressure load (continuous)	Faigle	MPa (N/mm ²)	33
Charpy impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m ²	30
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m ²	8
Coefficient of sliding friction (p = 0.3N/mm ² / 0.6N/mm ² , v = 0.27m/s, against steel hardened and ground, dry)			0.55

thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-20
max. service temperature (continuous)		°C	100
max. service temperature (short-term)		°C	140
Coefficient of linear thermal expansion (23 - 60°C)	ISO 11359	10 ⁻⁶ /K	80

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 ¹²

physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm ³	1.58

chemical characteristics

Characteristic	Standard	Unit	Value
UV light and weathering			unstable
Physiology	Faigle		unsuitable