

Material datasheet

Material: PAS-80 CF20

mechanical characteristics

Characteristic	Standard	Unit	Value
Yield stress (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	104
Yield strain (dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	12
Tensile strength (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	104
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	13
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	5100
Max. permissible pressure load (continuous)	Faigle	MPa (N/mm ²)	25
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm ²)	200

thermal characteristics

Characteristic	Standard	Unit	Value
max. service temperature (continuous)		°C	100
max. service temperature (short-term)		°C	170
Coefficient of linear thermal expansion (23 - 60°C)	ISO 11359	10 ⁻⁶ /K	75
Thermal conductivity (+23°C)	DIN 52612	W/(m×K)	0.72

combustibility characteristics

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

physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm ³	1.23
Moisture absorption at saturation - standard climate (23°C, 50% RF)	ISO 62 ISO 1110	%	2.2