

**Material datasheet**  
**Material: PAS-PP FR (vormalig / formerly PP s)**

**mechanical characteristics**

Characteristic	Standard	Unit	Value
Yield stress (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm <sup>2</sup> )	32
Yield strain (dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	8
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	70
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm <sup>2</sup> )	1600
Max. permissible pressure load (continuous)	Faigle	MPa (N/mm <sup>2</sup> )	8
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m <sup>2</sup>	6
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm <sup>2</sup> )	70

**thermal characteristics**

Characteristic	Standard	Unit	Value
max. service temperature (continuous)		°C	100
max. service temperature (short-term)		°C	150
Coefficient of linear thermal expansion (23 - 60°C)	ISO 11359	10 <sup>-6</sup> /K	200
Thermal conductivity (+23°C)	DIN 52612	W/(m×K)	0.22

**combustibility characteristics**

Characteristic	Standard	Unit	Value
UL94 flammability	IEC 60695-11-10	class	V2

#### electrical characteristics

Characteristic	Standard	Unit	Value
Surface resistivity (dry)	DIN IEC 60093 (DIN VDE 0303-30) ASTM D 257	$\Omega$	$10^{14}$

#### physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm <sup>3</sup>	0.95