

Material datasheet  
Material: PAS-PE3 ELS schwarz (black)

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> )	26
Yield strain (dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	7
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm <sup>2</sup> )	1300
Charpy impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m <sup>2</sup>	No Break
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> )	50

thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-20
max. service temperature (continuous)		°C	80
max. service temperature (short-term)		°C	100
Coefficient of linear thermal expansion (23 - 60°C)	ISO 11359	10 <sup>-6</sup> /K	180

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 <sup>6</sup>

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>	1.05