

Material datasheet
Material: PAS-PE10 ELS schwarz

mechanical characteristics

Characteristic	Standard	Unit	Value
Yield stress (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	18
Yield strain (dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	16
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	>350
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	700
Charpy impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m ²	No Break
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m ²	140
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm ²)	38

thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-100
max. service temperature (continuous)		°C	85
max. service temperature (short-term)		°C	100
Thermal conductivity (+23°C)	DIN 52612	W/(m×K)	0.4

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	10^4

physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm ³	0.93