

## Material datasheet

### Material: PAS-PE10 reg

#### 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> )	22
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	300
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm <sup>2</sup> )	800
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>	120
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm <sup>2</sup> )	38

#### thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-100
max. service temperature (continuous)		°C	80
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

#### physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm <sup>3</sup>	0.94
Water absorption at saturation (water storage 23°C)	ISO 62 DIN 53495 ASTM D 570	%	0.01

#### chemical characteristics

Characteristic	Standard	Unit	Value
UV light and weathering			conditionally stable