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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/mm²)	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/mm²)	800
Charpy impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m²	No Break
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m²	120
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm²)	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	НВ

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.



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physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm³	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

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