

Material datasheet

Material: PAS-PVC C hart (hard)

mechanical characteristics

Characteristic	Standard	Unit	Value
Yield stress (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	60
Yield strain (dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	3
Tensile strength (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	80
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	3000
Max. permissible pressure load (continuous)	Faigle	MPa (N/mm ²)	15
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	4

thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-15
max. service temperature (continuous)		°C	90
max. service temperature (short-term)		°C	105
Coefficient of linear thermal expansion (23 - 60°C)	ISO 11359	10 ⁻⁶ /K	60
Thermal conductivity (+23°C)	DIN 52612	W/(m×K)	0.13

combustibility characteristics

Characteristic	Standard	Unit	Value
UL94 flammability	IEC 60695-11-10	class	V0

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.

electrical characteristics

Characteristic	Standard	Unit	Value
Surface resistivity (dry)	DIN IEC 60093 (DIN VDE 0303-30) ASTM D 257	Ω	10^{13}

physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm ³	1.64
Moisture absorption at saturation - standard climate (23°C, 50% RF)	ISO 62 ISO 1110	%	0.2

chemical characteristics

Characteristic	Standard	Unit	Value
UV light and weathering			unstable
Physiology	Faigle		unsuitable