

Material datasheet Material: PAS-PMMA XT

mechanical characteristics

Characteristic	Standard	Unit	Value
Tensile strength (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	70
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm ²)	3200
Charpy notched impact strength (+23°C, dry)	ISO 179/1eA	kJ/m ²	2
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm ²)	235

thermal characteristics

Characteristic	Standard	Unit	Value
max. service temperature (continuous)		°C	70
max. service temperature (short-term)		°C	90
Thermal conductivity (+23°C)	DIN 52612	W/(m×K)	0.18

combustibility characteristics

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

electrical characteristics

Characteristic	Standard	Unit	Value
Dielectric constant, relative permittivity (1 MHz, dry)	DIN IEC 60250 (DIN VDE 0303-4) ASTM D 150		2.70
Dielectric loss factor (1 MHz, dry)	DIN IEC 60250 (DIN VDE 0303-4) ASTM D 150		0.02
Surface resistivity (dry)	DIN IEC 60093 (DIN VDE 0303-30) ASTM D 257	Ω	10 ¹⁵

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 ³	1.19

chemical characteristics

Characteristic	Standard	Unit	Value
UV light and weathering			constant
Physiology	Faigle		suitable