

Material datasheet  
Material: PAS-LXY

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> )	35
Yield strain (dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	7
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	8
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm <sup>2</sup> )	2000
Max. permissible pressure load (continuous)	Faigle	MPa (N/mm <sup>2</sup> )	9
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m <sup>2</sup>	2
Charpy impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m <sup>2</sup>	18
Coefficient of sliding friction (p = 0.3N/mm <sup>2</sup> / 0.6N/mm <sup>2</sup> , v = 0.27m/s, against steel hardened and ground, dry)			0.15

thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-40
max. service temperature (continuous)		°C	100
max. service temperature (short-term)		°C	120
Coefficient of linear thermal expansion (23 - 60°C)	ISO 11359	10 <sup>-6</sup> /K	120

combustibility characteristics

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

For further information, please get in touch with your contact person.

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**electrical characteristics**

Characteristic	Standard	Unit	Value
Dielectric constant, relative permittivity (1 MHz, dry)	DIN IEC 60250 (DIN VDE 0303-4) ASTM D 150		3.7
Dielectric loss factor (1 MHz, dry)	DIN IEC 60250 (DIN VDE 0303-4) ASTM D 150		0.0080

**physical characteristics**

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm <sup>3</sup>	1.4

**chemical characteristics**

Characteristic	Standard	Unit	Value
UV light and weathering			unstable
Physiology	Faigle		conditionally suitable

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