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Semi-finished products CH/LI faigle Igoplast AG +41 71 747 41 41 igoplast@faigle.com Injection moulded parts faigle Kunststoffe GmbH +43 5574 6811 kunststoffe@faigle.com

Material datasheet

Material: PAS-C120 (vormals / formerly IGOPAS-L12/100)

mechanical characteristics

Characteristic	Standard	Unit	Value
Yield strain (dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	7
Tensile strength (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm²)	66
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm²)	2200
Max. permissible pressure load (continuous)	Faigle	MPa (N/mm²)	12
Charpy impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m²	110
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m²	8
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm²)	106
Coefficient of sliding friction (p = $0.3N/mm^2$ / $0.6N/mm^2$, v = $0.27m/s$, against steel hardened and ground, dry)			0.40

thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-50
max. service temperature (continuous)		°C	120
max. service temperature (short-term)		°C	150
Coefficient of linear thermal expansion (23 - 60°C)	ISO 11359	10^-6/K	100
Thermal conductivity (+23°C)	DIN 52612	W/(m×K)	0.23

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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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/cm³	1,03
Moisture absorption at saturation - standard climate (23°C, 50% RF)	ISO 62 ISO 1110	%	1.1

chemical characteristics

Characteristic	Standard	Unit	Value
UV light and weathering			conditionally stable

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