

Semi-finished products faigle Industrieplast GmbH +43 5574 6811 industrieplast@faigle.com

faigle Igoplast AG +41 71 747 41 41 igoplast@faigle.com

Semi-finished products CH/LI

Injection moulded parts faigle Kunststoffe GmbH +43 5574 6811 kunststoffe@faigle.com

Material datasheet Material: PAS-PMMA XT Fluor

mechanical characteristics

Characteristic	Standard	Unit	Value
Tensile stress at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm²)	83
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	4.5
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm²)	3200
Max. permissible pressure load (continuous)	Faigle	MPa (N/mm²)	20
Charpy impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m²	15
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m²	1.6

thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-40
max. service temperature (continuous)		°C	70
max. service temperature (short-term)		°C	95
Coefficient of linear thermal expansion (23 - 60°C)	ISO 11359	10^-6/K	80
Thermal conductivity (+23°C)	DIN 52612	W/(m×K)	0.19

combustibility characteristics

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

electrical characteristics

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

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.

faigle Kunststoffe GmbH / Landstraße 31 / AT-6971 Hard / DVR:0575607/ Company Register: FN 303246 a / FB Court Feldkirch / UID: ATU63895404/ ARA:4998

1 01/05/24



Semi-finished products faigle Industrieplast GmbH +43 5574 6811

industrieplast@faigle.com

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

physical characteristics

Characteristic	Standard	Unit	Value
Density, Gross density	ISO 1183 DIN 53479 ASTM D 792	g/cm³	1.19
Moisture absorption at saturation - standard climate (23°C, 50% RF)	ISO 62 ISO 1110	%	0.6

chemical characteristics

Characteristic	Standard	Unit	Value
Physiology	Faigle		unsuitable

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.