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

Material datasheet
Material: PAS-PE10 FR AST schwarz (black)

mechanical characteristics

Characteristic	Standard	Unit	Value
Elongation at break (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	%	150
Tensile E-modulus (+23°C, dry)	ISO 527-1/-2 DIN 53455 ASTM D 638	MPa (N/mm²)	890
Charpy notched impact strength (+23°C, dry)	ISO 179 DIN 53453	kJ/m²	80
Ball indentation hardness (dry)	ISO 2039-1	MPa (N/mm²)	42
Coefficient of sliding friction (p = 0.3N/mm² / 0.6N/mm², v = 0.27m/s, against steel hardened and ground, dry)			0.25

thermal characteristics

Characteristic	Standard	Unit	Value
min. Operating temperature (continuous)		°C	-200
max. service temperature (continuous)		°C	80
max. service temperature (short-term)		°C	100

combustibility characteristics

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

electrical characteristics

Characteristic	Standard	Unit	Value
Surface resistivity (dry)	DIN IEC 60093 (DIN VDE 0303-30) ASTM D 257	Ω	10^6

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	1.04
Moisture absorption at saturation - standard climate (23°C, 50% RF)	ISO 62 ISO 1110	%	0.01