

# Ferrocomp I 10/22 PA

## **Product description**

Magnetic material: Anisotropic Sr-ferrite Bonding material: PA12

## Magnetic properties

	Unit	min	typ
Residual induction; Br	mT	236	250.7
Coercive force; bHc	kA/m	170	189
Intrinsic coercive force; iHc	kA/m	220	261.9
Energy product; BH <sub>max</sub>	kJ/m <sup>3</sup>	10.6	12.3
Temperature coefficient; TK <sub>Br</sub> **	%/°C		-0,20
Temperature coefficient; TK <sub>iHc</sub> **	%/°C		0,15
Magnetising field strength; M	kA/m		800

Values shown in the table are typical and vary depending upon part geometry.

## Other relevant properties

	Unit	Value
Density; ρ	g/cm³	3.29
Operating temperature; Top*/***	°C	120
Tensile strength; R <sub>m</sub>	MPa	52.3
Flexural strength; σ <sub>fM</sub>	МРа	110.1
Elongation at break; ε	%	1.259
Young's modulus; E	GPa	10.4
Glass transition; T <sub>g</sub>	°C	40
Melting temperature; T <sub>m</sub>	°C	180

<sup>\*</sup> Max operating temperature depends on the magnet dimensions, the exposure time and the specific application. Please get in touch with our applications engineers for any further info.

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<sup>\*\*</sup> In the temperature range from 20 °C to 100 °C.

<sup>\*\*\*</sup> For magnets with PPS as binder, the chemical resistance to oils, grease, motor oils etc. is significantly better than for PA-bonded magnets; however this has to be checked in individual cases.