

Ferocomp I 5/20 PA



Product description

Magnetic material: Anisotropic Sr-ferrite
 Bonding material: PA12

Magnetic properties

	Unit	min	typ
Residual induction; Br	mT	170	183.0
Coercive force; bHc	kA/m	85	130
Intrinsic coercive force; iHc	kA/m	200	238
Energy product; BH _{max}	kJ/m ³	4.9	6.2
Temperature coefficient; TK _{Br} **	%/°C	-0,20	
Temperature coefficient; TK _{iHc} **	%/°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/cm ³	3.14
Operating temperature; T _{op} */***	°C	120
Flexural strength; σ _{fM}	MPa	140
Glass transition; T _g	°C	40
Melting temperature; T _m	°C	180

* 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.

** In the temperature range from 20 °C to 100 °C.

*** 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.