Ferrocomp I 11/18 PS

Product description

Magnetic material: Anisotropic Sr-ferrite
Bonding material: PPS

Magnetic properties

	Unit	min	typ
Residual induction; Br	mT	250	252.5
Coercive force; bHc	kA/m	165	178.5
Intrinsic coercive force; iHc	kA/m	200	228.6
Energy product; BH_{max}	kJ/m^3	11	12.2
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	3.57
Operating temperature; T_{op}*/***	°C	150
Tensile strength; R_m	MPa	38.1
Flexural strength; σ_{fM}	MPa	87.2
Elongation at break; ε	%	0.163
Young's modulus; E	GPa	23.2
Glass transition; T_g	°C	80
Melting temperature; T_m	°C	280

* 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.