

Neocomp I 32/95 PA

Product description

Magnetic material: Isotropic NdFeB

Bonding material: PA12

Magnetic properties

	Unit	min	typ
Residual induction; Br	mT	425	463.2
Coercive force; bHc	kA/m	300	330.1
Intrinsic coercive force; iHc	kA/m	900	948.1
Energy product; BH _{max}	kJ/m ³	30	37.8
Temperature coefficient; TK _{Br} **	%/°C		-0,13
Temperature coefficient; TK _{iHc} **	%/°C		-0,40
Magnetising field strength; M	kA/m		2000

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

Other relevant properties

	Unit	Value
Density; ρ	g/cm ³	4.45
Operating temperature; T _{op} * / ***	°C	120
Tensile strength; R _m	MPa	50.9
Flexural strength; σ _{fM}	MPa	87.8
Elongation at break; ε	%	1.026
Young's modulus; E	GPa	13.4
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.