# Neocomp I 43 PX

## Product description

Magnetic material: Isotropic NdFeB
Bonding material: PA612

## Magnetic properties

| | Unit | min | typ |
|---|---|---|---|
| Residual induction; Br | mT | 505 | 552.8 |
| Coercive force; bHc | kA/m | 320 | 357.9 |
| Intrinsic coercive force; iHc | kA/m | 680 | 720.4 |
| Energy product; $BH_{max}$ | $kJ/m^3$ | 42 | 49 |
| Temperature coefficient; $TK_{Br}$ ** | %/°C | -0,12 | |
| Temperature coefficient; $TK_{iHc}$ ** | %/°C | -0,35 | |
| 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 | $g/cm^3$ | 4.98 |
| Operating temperature; $T_{op}$ */*** | °C | 150 |
| Tensile strength; $R_m$ | MPa | 39.4 |
| Flexural strength; $\sigma_{fM}$ | MPa | 73 |
| Elongation at break; ε | % | 0.261 |
| Young's modulus; E | GPa | 19.9 |
| Glass transition; $T_g$ | °C | 50 |
| Melting temperature; $T_m$ | °C | 210 |

* 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.