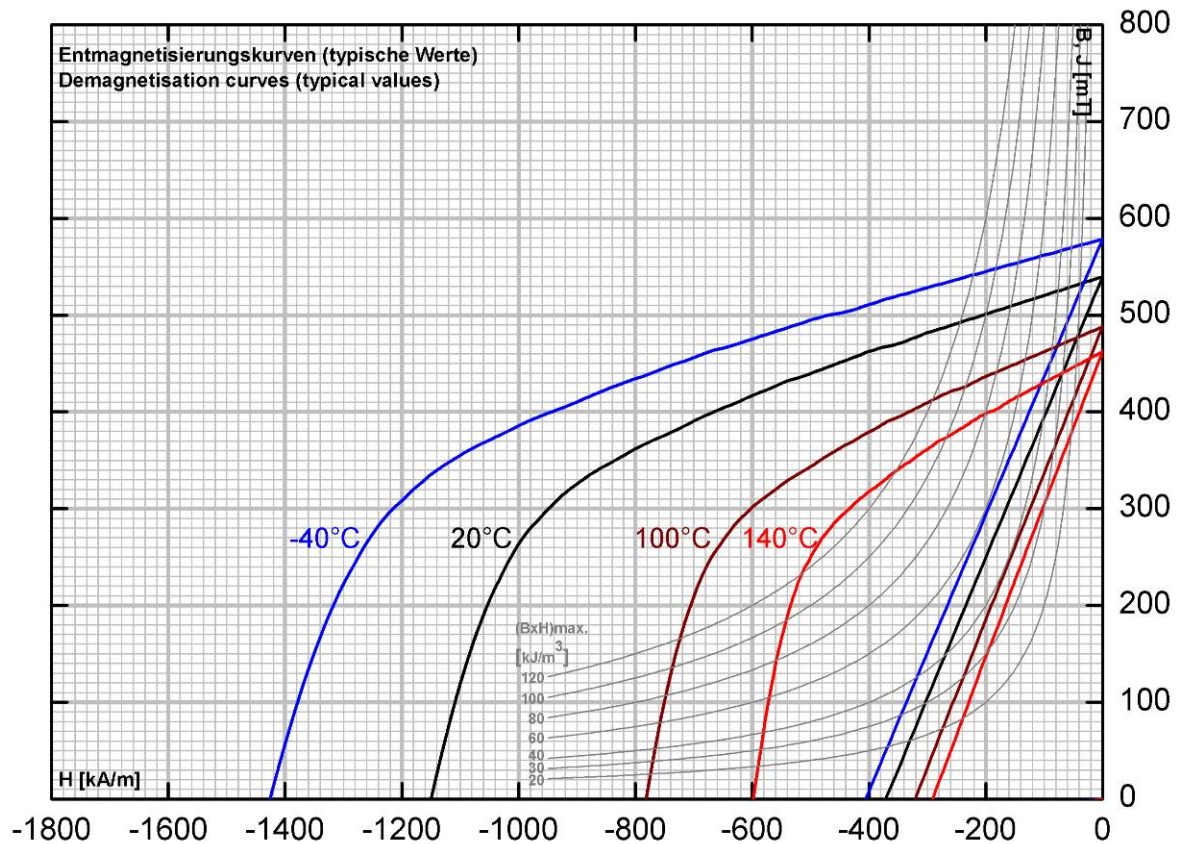


PLASTIC BONDED MAGNETS

NdFeB 49/100 p

isotropic, injection moulded



MATERIAL DATA

Magnetic values according to DIN IEC 60404-8-1

Energy product ($B \cdot H$) _{max.}	typ.	kJ/m^3	51
	min.	kJ/m^3	49
Remanence B_r	typ.	mT	540
	min.	mT	525
Revers. temp. coeff. of B_r	approx.	%/K	-0.12 ¹⁾
Coercivity H_c	H_{cB} typ.	kA/m	375
	H_{cB} min.	kA/m	355
	H_{cJ} typ.	kA/m	1150
	H_{cJ} min.	kA/m	1000
Revers. temp. coeff. of H_{cJ}	approx.	%/K	-0.4 ¹⁾
Relative permanent permeability μ_{rec}	approx.		1.15
Curie temperature	approx.	$^\circ\text{C}$	310
Magnetising field strength	min.	kA/m	>3200

Max. operating temperature

Matrix binder PA 12	approx.	$^\circ\text{C}$	120 - 140 ²⁾
Matrix binder PPS ³⁾⁴⁾	approx.	$^\circ\text{C}$	120 - 160 ²⁾

Mechanical values

Density	approx.	g/cm^3	5.3
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¹⁾ In the temperature range from 20°C to 100°C .

²⁾ The max. operating temperature depends on the magnet dimension and the specific application. Please contact our application engineering for more information.

³⁾ 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.

⁴⁾ On request.

All values indicated were determined on a sample (10 mm x 10 mm x 5 mm) according to IEC 60404-5.

For unfavourable geometries, especially for thin magnets, the excessively fast solidification process can cause the material data to be less than optimal.