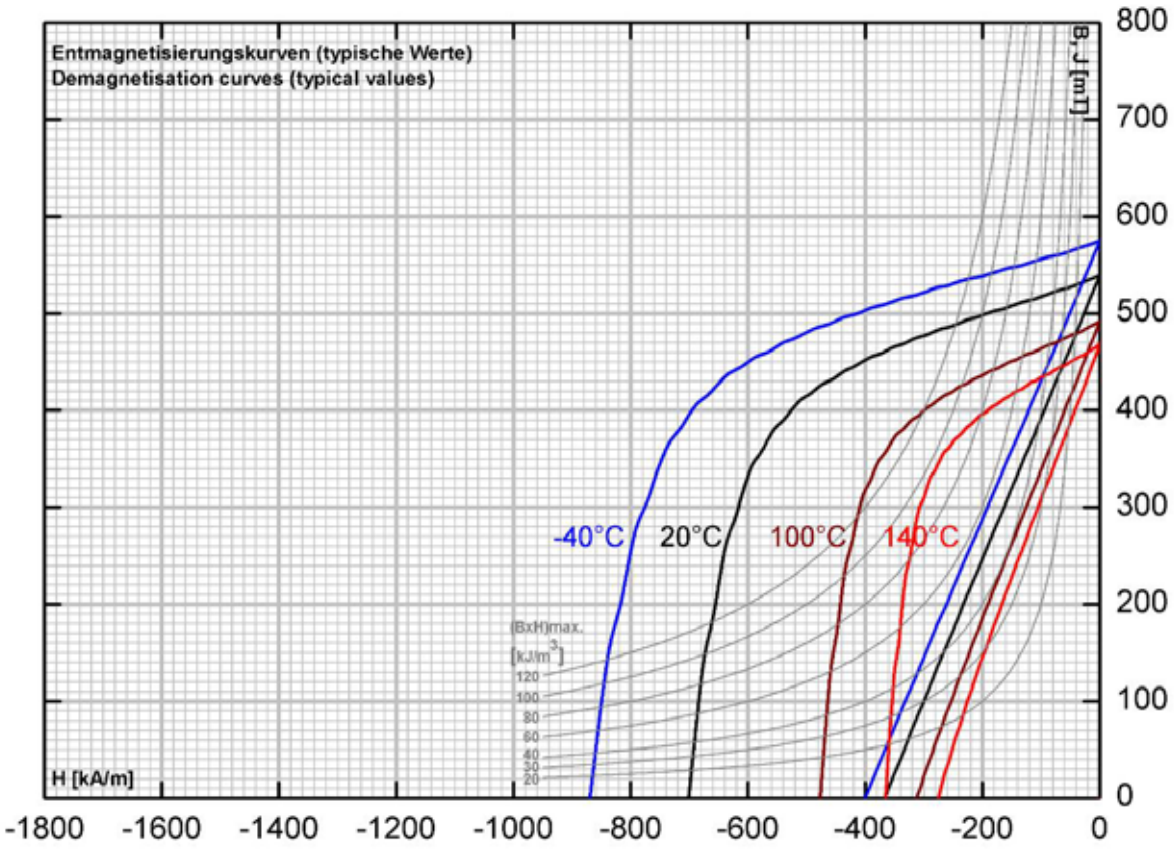
PLASTIC BONDED MAGNETS

NdFeB 48/60 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	50
	min.	kJ/m^3	48
Remanence B_r	typ.	mT	540
	min.	mT	530
Revers. temp. coeff. of B_r	approx.	%/K	-0.11 [1]
Coercivity H_C	H_{cB} typ.	kA/m	375
	H_{cB} min.	kA/m	360
	H_{cJ} typ.	kA/m	700
	H_{cJ} min.	kA/m	600
Revers. temp. coeff. of H_{CJ}	approx.	%/K	-0.4 [1]
Relative permanent permeability $\mu_{rec.}$	approx.		1.15
Curie temperature	approx.	°C	310
Magnetising field strength	min.	kA/m	>2800

Max. operating temperature

Matrix binder PA 12	approx.	°C	120 - 140 [2]
Matrix binder PPS [3] [4]	approx.	°C	120 - 160 [2]

Mechanical values

Density	approx.	g/cm^3	4.8

[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.

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