

I-REN

Injected NdFeB

MATERIAL TYPE

Plastic

SURFACE PROTECTION

Not necessary

ORIENTATION

Isotropic Material

MAGNETIZATION

Single Pole / Multiple Poles (Halbach Sinusoidal, Skewed, Trapezoidal, Discrete)

TEMPERATURE BEHAVIOR

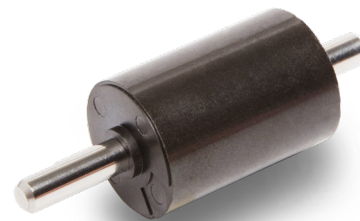
Br TEMPERATURE COEFFICIENT	% / °C	-0,12
HcJ TEMPERATURE COEFFICIENT	% / °C	-0,4

*The temperature coefficients are nominal reference values only. They can vary for different temperatures and don't need to be linear.

**The maximum operating temperature is depending on the magnet shape, size and on the specific application.

PHYSICAL AND MECHANICAL TYPICAL PROPERTIES

CURIE TEMPERATURE	°C	310
RELATIVE PERMEABILITY	(μ_r)	1,15
SATURATION FIELD	kOe	> 38
ELECTRICAL RESISTIVITY	Ωm	n.a.
FLEXURAL STRENGTH	N / mm ²	n.a.
TENSILE STRENGTH	N / mm ²	n.a.
IMPACT STRENGTH	N / mm ²	n.a.
ROCKWELL HARDNESS	HRC	90 - 95
FLEXURAL TEMPERATURE	°C	n.a.
THERMAL CONDUCTIVITY	kcal/m/hr/°C	n.a.



Injected NdFeB with Binder PA12

GRADES	Br		HcB		HcJ		BH max		Max. Working Temp.**
	G	T	Oe	kA/m	Oe	kA/m	MGOe	kJ/m ³	
I-REN 3512	5.000 - 5.300	0,500 - 0,530	4.000 - 4.400	318 - 350	9.200 - 10.000	732 - 795	5,30 - 5,90	42,1 - 46,9	+120
I-REN 4212	5.500 - 6.000	0,550 - 0,600	4.150 - 4.300	330 - 342	8.050 - 8.300	640 - 660	5,90 - 6,20	47,2 - 49,6	+120

Injected NdFeB with Binder PPS

GRADES	Br		HcB		HcJ		BH max		Max. Working Temp.**
	G	T	Oe	kA/m	Oe	kA/m	MGOe	kJ/m ³	
I-REN 34PPS	4.600 - 4.900	0,460 - 0,490	3.650 - 4.250	290 - 338	8.400 - 11.300	668 - 899	4,50 - 5,25	35,8 - 41,8	+180
I-REN 40PPS	5.000 - 5.600	0,500 - 0,560	4.100 - 4.900	326 - 390	10.000 - 12.000	795 - 955	5,40 - 6,40	42,9 - 50,9	+180