Mainrich Magnets

Injection Molded NdFeB Magnets - Grade Table

mainrichmagnets.com
sales@mainrichmagnets.com

Isotropic grades - MND series (any pole pattern magnetized in the mold)

Grade	Binder	Br (Gs)	bHc (kA/m)	iHc (kA/m)	BHmax (MGOe)	Working Temp	Tensile (MPa)	Flexural (MPa)	Density (g/cm3)
MND-1240	PA12	4,500	311	690	4.40	-40 to +120 C	62	116	4.6
MND-1250	PA12	5,020	335	724	5.40	-40 to +120 C	60	110	5.0
MND-1260	PA12	5,500	365	728	6.28	-40 to +120 C	52	90	5.3
MND-1280	PA12	6,250	398	724	8.00	-40 to +120 C	39.7	61	5.6
MND-2240	PPS	4,350	300	680	4.02	-40 to +150 C	75	123	4.8
MND-2250	PPS	4,900	322	690	5.00	-40 to +150 C	70	119	5.0
MND-2260	PPS	5,300	344	693	5.81	-40 to +150 C	63	107	5.3

Anisotropic grades - MN / MSN series (oriented in the mold; PA12 binder)

Grade	Powder	Br (kGs)	Hcj (kA/m)	BHmax (MGOe)	a Br (%/K)	b Hcj (%/K)	Flexural (MPa)	Density (g/cm3)
MN-12120	NdFeB	7.86	860	12.7	-0.12	-0.53	86	4.92
MN-12140	NdFeB	8.21	1,003	14.2	-0.13	-0.59	84	5.11
MSN-12100	NdFeB + SmFeN	6.89	701	10.3	-0.10	-0.57	99	4.45
MSN-12120	NdFeB + SmFeN	7.81	812	12.47	-0.10	-0.57	91	4.95

Notes

- Values are typical material data. Acceptance limits for a specific part are agreed at drawing review.
- Working temperature on anisotropic grades is confirmed per grade against the demagnetization curve for your geometry.
- Isotropic MND grades accept any pole pattern in the mold; anisotropic orientation fixes the pole layout at tooling.
- No MOQ on custom orders. We quote in 24 hours: send your drawing to mainrichmagnets.com/inquiry