



Bonded Magnets

Magnetic powder combined with binder and compression- or injection-molded for complex shapes and tight tolerances. Good magnetic performance and machinability for micro motors, sensors, and office equipment.



X-MAG's capabilities cover magnetic engineering & simulation, automated sustainable manufacturing, comprehensive quality assurance, and advanced magnet R&D.

Typical Magnetic Properties of Bonded Magnets

Type	Grade	Remanence		Coercivity				Max Energy Product		Max Working Temperature	Density
		Br		HcB		HcJ		(BH)max		TwMax	ρ
		T	kGs	kA/m	kOe	kA/m	kOe	kJ/m ³	MGOe	° C	g/cm3
Compression Molding NdFeB Magnet	KBM-2	0.30~0.40	3.0~4.0	160~240	2.0~3.0	480~640	6.0~8.0	16~24	2.0~3.0	120	4.5~6.0
	KBM-4	0.40~0.50	4.0~5.0	240~320	3.0~4.0	560~720	7.0~9.0	32~44	4.0~5.5	120	5.2~6.0
	KBM-6	0.55~0.63	5.5~6.3	320~400	4.0~5.0	480~640	6.0~8.0	48~60	6.0~7.5	120	5.5~6.0
	KBM-8	0.65~0.68	6.5~6.8	360~440	4.5~5.5	640~800	8.0~10.0	64~72	8.0~9.0	150	5.8~6.1
	KBM-8H	0.60~0.65	6.0~6.5	400~480	5.0~6.0	1120~1280	14.0~16.0	60~68	7.5~8.5	160	5.8~6.2
	KBM-8L	0.65~0.68	6.5~6.8	400~480	5.0~6.0	900~1120	11.0~14.0	64~72	8.0~9.0	160	5.8~6.2
	KBM-9	0.60~0.68	6.0~6.8	400~480	5.0~6.0	640~800	8.0~10.0	68~72	8.5~9.0	150	5.8~6.2
	KBM-10	0.68~0.73	6.8~7.3	400~480	5.0~6.0	640~800	8.0~10.0	76~84	9.5~10.5	150	5.8~6.2
	KBM-12	0.71~0.75	7.1~7.5	440~520	5.5~6.5	720~800	9.0~10.0	84~96	10.5~12.0	150	6.0~6.2
	KBM-12L	0.72~0.76	7.2~7.6	400~480	5.0~6.0	480~640	6.0~8.0	84~96	10.5~12.0	140	6.0~6.2
Injection Molding NdFeB Magnet	KBI-3	0.25~0.35	2.5~3.5	160~240	2.0~3.0	480~640	6.0~8.0	12~24	1.5~3.0	120	3.9~4.4
	KBI-4	0.35~0.45	3.5~4.5	240~320	3.0~4.0	560~720	7.0~9.0	24~36	3.0~4.5	120	4.2~4.9
	KBI-5	0.45~0.52	4.5~5.2	320~360	4.0~4.5	560~720	7.0~9.0	36~44	4.5~5.5	120	4.5~5.0
	KBI-5H(PPS)	0.48~0.52	4.8~5.2	400~480	5.0~6.0	880~1040	11.0~13.0	36~44	4.5~5.5	180	4.9~5.4
	KBI-6	0.50~0.55	5.0~5.5	320~440	4.0~5.5	640~800	8.0~10.0	44~52	5.5~6.5	120	4.7~5.1
	KBI-7	0.58~0.64	5.8~6.4	320~400	4.0~5.0	640~800	8.0~10.0	52~60	6.5~7.5	120	5.0~5.5
	KBI-8	0.64~0.74	6.4~7.4	400~480	5.0~6.0	640~800	8.0~10.0	68~76	8.5~9.5	120	5.5~5.9

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Injection Molding Ferrite Magnet	KBI-F1.5	0.22~0.24	2.2~2.4	160~167	2.00~2.10	231~240	2.90~3.00	11.6~12.4	1.45~1.55	/	3.25
	KBI-F1.9	0.27~0.29	2.7~2.9	180~186	2.25~2.33	216~228	2.70~2.85	14.8~15.6	1.85~1.95	/	3.63
	KBI-F2.0	0.28~0.29	2.8~2.9	184~200	2.30~2.50	216~246	2.70~3.10	15.6~16.4	1.95~2.05	/	3.7
	KBI-F2.1	0.28~0.29	2.8~2.9	190~204	2.38~2.55	224~249	2.80~3.12	16.4~17.2	2.05~2.15	/	3.75
	KBI--F1.7(PPS)	0.25~0.26	2.5~2.6	167~175	2.10~2.20	208~216	2.60~2.70	13.6~14.0	1.70~1.75	/	3.65