

Properties for Injection Molded NdFeB magnet

注塑釹鐵硼磁石特性表

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Property Grade	Br Residual flux density mT / K Gauss	bHc Coercive force (kA/m)/ KOe	iHc Intrinsic Coercive force (kA/m)/ KOe	BHmax Max.energy product (kJ/m ³)/MGOe	Density g/cm ³	Recoil Permeability μT	Temp. Coeff. of Br %/°C	Working Temperature °C
BNI-3	350 ~ 450	200~280	400~640	20~28	4.5~5.0	1.2	-0.11	120
	3.5 ~ 4.5	2.5~3.5	5.0~8.0	2.5~3.5				
BNI-4	400 ~ 500	240~320	560~720	28~36	4.5~5.0	1.2	-0.11	120
	4.0 ~ 5.0	3.0~4.0	7.0~9.0	3.5~4.5				
BNI-5	450~550	304~360	640~800	36~44	4.5~5.1	1.2	-0.11	120
	4.5~5.5	3.8~4.5	8.0~10.0	4.5~5.5				
BNI-6	500~600	328~384	640~800	44~52	4.7~5.2	1.2	-0.11	120
	5.0~6.0	4.1~4.8	8.0~10.0	5.5~6.5				
BNI-7	550~650	344~400	640~800	52~60	4.7~5.3	1.2	-0.12	120
	5.5~6.5	4.3~5.0	8.0~10.0	6.5~7.5				
BNI-5SR (PPS)	450~550	320~400	880~1120	36~44	4.8~5.3	1.2	-0.11	180
	4.5~5.0	4.0~5.0	11.0~14.0	4.5~5.5				
BNI-6SR (PPS)	500~600	320~400	800~1120	44~52	4.8~5.2	1.2	-0.11	180
	5.0~6.0	4.0~5.0	11.0~14.0	5.5~6.5				

Material: Neodymium-Iron-Boron power with the PA6, PA12 and PPS polymer binders.

Product Features:

1. The design of the injection molded NdFeB Magnet can be with smaller size, irregular or complex shapes. It also can be designed with multi-pole or complex magnetization.
2. There is also the insert mold benefit for assemblies cost saving by injecting the motor core or shaft directly in the molding process to form the complete components.
3. The injection molded NdFeB magnets are widely automatic equipment, stepping motors, Brushless motors, DC to DC Air conditioner motors, cooling fan motors, meters, automotive sensor, and high end household appliance.

材料： 注塑釹鐵硼為釹鐵硼磁粉混合 PA6/PA12/PPS 採用注塑成型加工技術形成高效率及高精密度的磁體。

1. 注塑釹鐵硼可做壁薄、異型的設計，磁場設計可做軸向、徑向或多極磁場及複合磁場的設計。
2. 於注塑過程中可直接置入電機鐵芯或軸心或其他配件一體成型，節省後續的組裝成本或複雜的組裝工序。
3. 注塑磁體精度高、一致性好，性能穩定，廣範使用於自動化設備、步進電機、空調機、車用感測器、儀表、無刷電機及高端家電設備電機。

Injection NdFeB Magnet process :

