

注射成型NdFeB磁性能与物理性能 Magnetic and Physical Properties of press molding NdFeB														
牌号 Grade	BNP-3	BNP-4	BNP-5	BNP-6	BNP-7	BNP-8	BNP-8A	BNP-9	BNP-9H	BNP-10	BNP-11	BNP-12D	BNP-12L	BNP-13L
剩磁磁感强度Br	400-510	460-520	470-550	550-650	520-670	520-680	520-680	550-700	550-700	570-720	580-740	720-770	730-770	760-830
Residual Induction	40-51	46-52	47-55	55-65	52-67	52-67	52-67	62-68	62-68	65-70	67-72	68-74	72-77	73-77
矫顽力Hcb	240-320	240-320	240-360	320-376	320-408	400-456	400-480	416-456	432-488	424-480	400-480	440-520	368-448	400-480
Coercive Force	30-40	30-40	30-45	40-47	40-51	50-57	50-60	52-57	54-61	53-60	50-60	55-65	46-56	50-60
内禀矫顽力Hci	504-720	594-720	520-720	600-720	560-720	600-720	600-720	680-800	680-920	640-800	640-800	720-880	520-640	480-640
Intrinsic Coercive Force	63-90	63-90	65-90	75-90	70-90	80-100	13.0-16.0	8.5-10.0	11.5-13.0	8.0-10.0	8.0-10.0	9.0-11.0	6.5-8.0	6.0-8.0
最大磁能积(BH)max	24-54	32-38	40-50	45-54	52-64	64-76	65-76	68-76	72-82	76-84	80-88	88-96	80-88	88-104
Max. Energy Product	3.0-4.2	4.0-4.8	5.0-6.2	5.8-6.8	6.5-8.0	8.0-9.5	8.2-9.2	8.5-9.5	9.0-10.2	9.5-10.5	10.0-11.0	11.0-12.0	10.0-11.0	11.0-13.0
磁能积	5.6-6.0	5.6-6.0	5.6-6.0	5.6-6.0	5.8-6.2	5.8-6.2	5.8-6.1	5.8-6.2	5.8-6.1	5.8-6.2	6.0-6.2	6.1-6.3	6.0-6.3	6.1-6.4
Density	—	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
可逆磁导率μr	—	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
矫顽可逆温度系数α	-0.11	-0.11	-0.11	-0.11	-0.11	-0.11	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.12
Temperature Coefficient of Br	%/°C													
居里温度Tc	°C	300	300	300	300	300	300	350	350	350	350	350	320	320
最大工作温度T _w	°C	160	160	160	160	160	160	160	160	160	160	160	120	120
Max. Working Temperature	°C													
饱和磁化 Saturation	(kA/m)	>1600	>1600	>1600	>1600	>1600	>2400	>1600	>2000	>1600	>1600	>1600	>1600	>1600
饱和磁化 Saturation	(kOe)	>20	>20	>20	>20	>20	>30	>20	>25	>20	>20	>20	>20	>20
Magnetizing Force	HRB	40-45	40-45	40-45	35-40	35-40	35-40	35-40	35-40	35-40	35-40	35-40	35-40	35-40
硬度	HRB	40-45	40-45	40-45	35-40	35-40	35-40	35-40	35-40	35-40	35-40	35-40	35-40	35-40
电阻 Electric Resistance	μΩ · m	30-56												
热膨胀系数 Thermal expansion coefficient	10 ⁻⁶ /°C (30~100°C)	8-12												
弯曲强度 Bending Strength	MPa	40-60												
抗压强度 Compression Strength	MPa	120-160												
杨氏弹性模量 Young's modulus	GPa	2.0-3.0												
泊松比 Poisson's ratio	—	0.06-0.10												

备注:

1. 以上特性用标准测试样品测得。
The characteristics in this table are measured on standard test samples and not guaranteed values.
2. 上述特性与磁体形状和尺寸有关, 产品的性能以实际的产品得到确认。
The above values depend on magnet shape and its dimensions. It is recommended that the figures be certified in actual products.

注射成型NdFeB磁性能与物理性能 Magnetic and Physical Properties of injection molding NdFeB										
牌号 Grade	BNi-3	BNi-4	BNi-5	BNi-6	BNi-7	BNi-5SR	BNi-6SR			
剩磁磁感强度Br	350-450	400-500	450-550	500-600	550-650	450-550	500-600			
Residual Induction	3.5-4.5	4.0-5.0	4.5-5.5	5.0-6.0	5.5-6.5	4.5-5.5	5.0-6.0			
矫顽力Hcb	224-304	240-320	304-360	328-384	360-416	320-440	320-440			
Coercive Force	2.8-3.8	3.0-4.0	3.8-4.5	4.1-4.8	4.5-5.2	4.0-5.5	4.0-5.5			
内禀矫顽力Hci	400-656	560-720	640-800	640-800	640-800	880-1040	880-1040			
Intrinsic Coercive Force	50-8.2	7.0-9.0	8.0-10.0	8.0-10.0	8.0-10.0	11.0-13.0	11.0-13.0			
最大磁能积(BH)max	22-30	29-37	38-46	46-54	52-60	36-44	44-52			
Max. Energy Product	2.7-3.7	3.6-4.6	4.7-5.7	5.7-6.7	6.5-7.5	4.5-5.5	5.5-6.5			
磁能积	4.5-5.0	4.5-5.0	4.5-5.1	4.7-5.2	4.7-5.3	4.8-5.3	4.9-5.4			
Density	—	1.2	1.2	1.2	1.2	1.2	1.2			
可逆磁导率μr	—	1.2	1.2	1.2	1.2	1.2	1.2			
矫顽可逆温度系数α	-0.11	-0.11	-0.11	-0.11	-0.12	-0.11	-0.11			
Temperature Coefficient of Br	%/°C									
最大工作温度T _w	°C	120	120	120	120	120	180			
Max. Working Temperature	°C									
饱和磁化 Saturation	(kA/m)	>1600	>1600	>1600	>1600	>1600	>2000			
饱和磁化 Saturation	(kOe)	>20	>20	>20	>20	>20	>25			
Magnetizing Force	HRB	>20	>20	>20	>20	>20	>25			
硬度	HRB	>20	>20	>20	>20	>20	>25			
电阻 Electric Resistance	μΩ · m	70-110						100-150		
热膨胀系数 Thermal expansion coefficient	10 ⁻⁶ /°C (30~100°C)	20-30						20-30		
弯曲强度 Bending Strength	MPa	50-80						60-90		
抗压强度 Compression Strength	MPa	60-90						60-90		
杨氏弹性模量 Young's modulus	GPa	1.0-1.5						1.0-1.5		
泊松比 Poisson's ratio	—	0.14-0.18						0.14-0.18		

备注:

1. 以上特性用标准测试样品测得。
The characteristics in this table are measured on standard test samples and not guaranteed values.
2. 上述特性与磁体形状和尺寸有关, 产品的性能以实际的产品得到确认。
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