

Supermax

塑膠磁石

Plastic Magnet

有鑑於步進馬達的市場需求秀越實業除積極開發極異方性環狀燒結鐵氧磁石外，更與日本技術合作開發馬達用磁石市場，提供品質優良精密之塑膠射出磁石及組立品，以多樣豐富的產品滿足客戶的需求。



主要產品：

- 1、冷卻風扇馬達磁石
(DC-cooling fan magnet)
- 2、無刷馬達磁石
(Brushless motor magnet)
- 3、多極步進馬達磁石
(Stepping motor magnet)
- 4、同步馬達磁石
(Synchro motor magnet)
- 5、儀錶磁石(Meter-magnet)
- 6、磁感應器(Sensor-magnet)
- 7、健康、教育用磁石
(Healthy、Education Magnet)

Injection Plastic Magnets are stronger than sintered magnets. They are transformable various appearance, and the tolerance is specified in $\pm 0.05\text{mm}$ which can also be minimized to $\pm 0.03\text{mm}$. The endurable temperature is 120°C at PA12 or 200°C at PPS, and possible to be magnetized at any style (radial, multipoles, and etc.)

The magnets are widely applied to rotor or stator for motors, sensors, magrolls, and vibrating equipment.



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塑膠磁石(Plastic Magnet)磁性能及特性表

MAGNETIC CHARACTERISTICS OF PLASTIC MAGNET

CODE 牌號		Residual flux density 殘留 磁束密度	Coercive force 矯頑力		Max energy product 最大磁能積	Desity 成型密度	Tensile strength 抗張強度	Fluxual strength 彎曲強度	Izod-impact strength 衝擊強度	Shrinkge 收縮率	Hot distortion Temp. 熱變形溫度
		Br(G)	bHc(Oe)	iHc(Oe)	(BH)max (MGOe)	g/cm ³	kg/cm ²	kg/cm ²	kg.cm/cm	%	℃
Isotropic	FP-1203	1100	1100	2500	0.35	2.90	600	1000	4.0	0.25	110
	FP-1104	1450	1150	1700	0.42	3.20	900	1200	7.0	0.20	120
Nylon 6	TP-S62	2390	2140	2900	1.40	3.27	1015	1927	(NB)	0.75	---
	TP-S65	2750	2350	2780	1.87	3.63	807	1703	12.1	0.57	---
	TP-S67K	2900	2280	2650	2.07	3.73	995	1856	13.7	0.41	---
	TP-S68	2920	2320	2700	2.13	3.77	918	1662	10.3	0.44	172
	TP-S69	3080	2300	2600	2.35	3.87	918	1805	11.7	0.45	---
	TP-F26S	2820	2360	2870	1.96	3.63	603	1173	15.9	0.66	---
Nylon 12	TP-A27E (P2A)	2880	2400	3000	2.06	3.65	518	1132	21.8	0.70	124
	TP-A27E (SD)	2880	2350	2880	2.05	3.68	465	938	20.8	0.72	113
	TPA-202	2930	2410	2900	2.13	3.68	593	1152	17.9	0.47	---
	TP-A27E	2890	2390	2880	2.06	3.69	465	938	20.8	0.72	113
	TP-A27E (T)	2940	2400	2900	2.14	3.70	510	1070	22.0	0.70	---
	TP-A27N	2960	2350	2800	2.17	3.74	591	1101	14.6	0.63	135
	Samarium (Sm) Sp-1290	5700~6400	4200~4500	5600	7~9	5.2~5.6	320~400	570~750	3.2~5.1	0.04	105~142
	Neodymium (Nd) Mp-1260	4700~5000	3800~4400	7000~15000	4~6	5.0	500~510	880~900	5.5~5.8	0.04	115~118
PPS	FPS-17	2650	2100	2500	1.70	3.65	343	883	8.3	0.02	235

製造流程圖

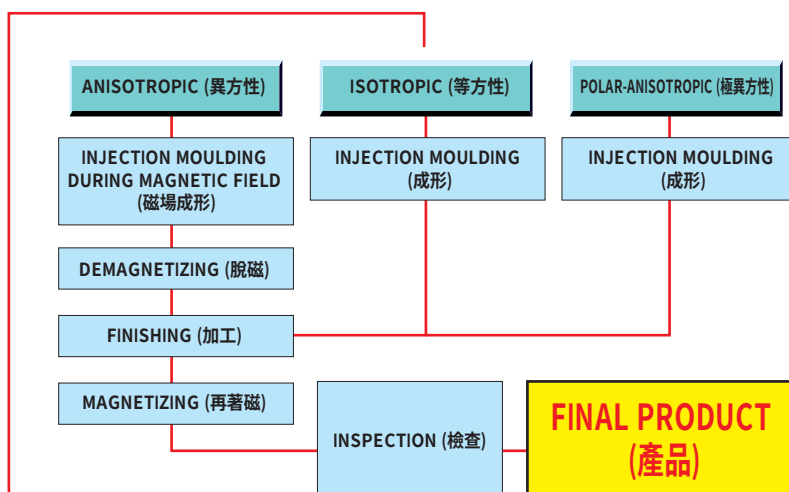
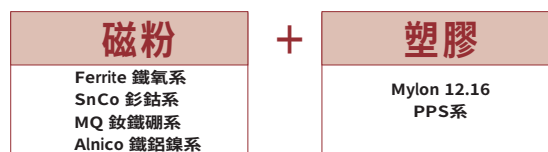
PLASTIC MAGNET MANUFACTURING PROCESS



MATERIAL (膠粒代號品名)

Pellet No.
FP-1116
FP-1216
FP-1118
FP1220
NP-1260
SP-1290

FERRITE POWDER RESIN ADDITION



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