

Injection Bonded Ferrite Magnets



Precise inject magnet include Anisotropic and isotropic magnet. Isotropic magnet magnets mainly used in colour TV, and Anisotropic magnet mainly used in the magnetic roller of laser printer, DC motor, small generator, relay, sensor, air-conditioner. Precise plastic part mainly used in field:Appliance (Camera, pickup camera), motor, hardware.

As a new production process for permanent magnetic material, Ferrite magnets produced with Injection moulding process remain ferrite magnets with much higher magnetic properties, meanwhile ,which exert advantages of high efficiency and high precision on injection moulding, as well as provided the injection plastic magnets with particular characteristics.

- 1) with hardness and elasticity, and could be processed into thin ring easily.
- 2) Could be injection moulded with axis at one time, simplify assembling,ensure precision. Complex shape and precise tolerance can be achieved.
- 3)In the condition of heat-melting, they are of even density, excellent consistency.
- 4) Produced by injection with mixture of ferrite powder and plastic binder. Be of excellent corrosion resistance as the ferrite powder is covered by plastic binder;
- 5). Density: 3.6---3.8g/cm³
- 6). Operating temperature range from -40 0C---130 0C .

Applications:

- ▶ Magnetic rollers for copier and laser printer

Permanent motor magnets
(rotors & other components)
Magnetic rings for aerodynamic component
Color Monitor/TV purity convergence magnet
Binders: PA6, PA12, PPS.

Characteristics:

Having high dimensional precision
Versatile shapes and specification
Impact-resistant,advanced surface treatment technology,effectively protect.
Integrated forming

Material Characteristic of Injection Bonded Ferrite Magnets

TYPE NO.	Binder	Magnet Material	Br (Gs)	Hcb (Oe)	Hcj (Oe)	BH(max) (MGOe)	Density (g/cm ³)	Usage
FBP-1210	Nylon6	Baferrite Srferrite	65~75	40~48	190~230	0.6~0.8	2.4~2.5	PCM for TV•Monitor
FBP-1211	Nylon6 Nylon12	Baferrite Srferrite	110~130	70~85	190~230	1.5~3.0	2.7~3.0	Isotropic injection magnet
FBP-1212	Nylon6 Nylon12	Baferrite Srferrite	130~180	85~125	190~230	3.0~6.0	3.0~3.6	Isotropic injection magnet
FBP-1213	Nylon6 Nylon12	Baferrite Srferrite	210~240	120~170	160~230	7.0~12.0	3.0~3.5	Anisotropic injection magnet

FBP-1214	Nylon6 Nylon12	Baferrite Srferrite	250~260	164~174	210~230	11.9~12.5	3.35~3.55	Anisotropic injection magnet
FBP-1215	Nylon6 Nylon12	Srferrite	250~260	174~184	230~280	12.1~12.7	3.35~3.55	Anisotropic injection magnet
FBP-1216	Nylon6 Nylon12	Srferrite	250~260	184~194	280~320	12.3~12.9	3.35~3.55	Anisotropic injection magnet
FBP-1217	Nylon6 Nylon12	Srferrite	270~280	170~180	210~230	14.3~14.9	3.5~3.65	Anisotropic injection magnet
FBP-1218	Nylon6 Nylon12	Srferrite	270~280	180~190	230~280	14.4~15.0	3.5~3.65	Anisotropic injection magnet
FBP-1219	Nylon6 Nylon12	Srferrite	270~280	190~200	280~320	14.5~15.1	3.5~3.65	Anisotropic injection magnet
FBP-1220	Nylon6 Nylon12	Srferrite	275~285	180~200	210~250	14.7~15.5	3.60~3.70	Anisotropic injection magnet
FBP-1221	Nylon6 Nylon12	Srferrite	285~295	190~210	210~250	15.5~16.5	2.65~3.75	Anisotropic injection magnet
FBP-1222	PPS	Srferrite	245~265	170~200	210~250	11.0~13.0	3.48~3.65	Anisotropic injection magnet

Physical Characteristics of Injection Ferrite Magnet

NO.	Density (g/cm ³)	Tension Strength (Kg/cm ²)	Bend Strength (Kg/cm ²)	Impact Strength (Kg*cm/cm ²)	Hardness (Rsc)	Water Absorption (%)	Heat Distortion Temp. (°C)
FBP-1210	2.5~2.7	630	1000	25.0	102	0.07	110
FBP-1211	2.7~3.0	630	1100	25.0	103	0.07	110
FBP-1212	2.6~2.9	630	1100	24.0	103	0.07	115
FBP-1213	3.0~3.5	630	1100	23.0	104	0.07	113
FBP-1214	3.1~3.5	630	1200	23.0	116	0.07	117
FBP-1215	3.35~3.55	630	1150	23.0	110	0.07	117
FBP-1216	3.35~3.55	600	1150	21.0	112	0.05	118
FBP-1217	3.5~3.65	550	1200	20.0	112	0.05	120
FBP-1218	3.5~3.65	550	1200	19.0	114	0.05	120
FBP-1219	3.5~3.65	500	1200	17.0	115	0.04	125
FBP-1220	3.60~3.70	470	900	12.0	115	0.04	128
FBP-1221	2.65~3.75	450	800	12.0	115	0.04	135

FBP- 1222	3.48~3.65	430	800	8.5	115	0.04	137
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