



ChenYang Promotional Magnets

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Promotional Magnets

ChenYang Technologies GmbH & Co. KG. supplies customer specific promotional magnets for teaching-aid, children's toys, gifts and advertising purposes etc. The magnetic characteristics and shapes of these rubber magnets can be customized. The magnetic materials are all kinds of magnetic materials, especially bonded ceramic/hard ferrite, bonded rare earth (NdFeB) and flexible rubber materials.



Promotional Magnets are laminated flexible magnets adhered to various kinds of PVC, PP & Self-Adhesive tape. The specific pictures are offset-printed on the tape. These magnets can be manufactured according to customer's design and colour requirement.



Material Information

- Made by consolidating Strontium or Barium ferrite powder with polymer matrix
- Form in profiles, strips and sheets by extrusion / calendaring method
- Product can be stamped, slit, punched and laminated
- Good demagnetization resistance & reasonable resistance to chemical agents
- Material is readily available and low in cost.

Typical Physical Properties

| | |
|--|--|
| Tensile Strength (kg/cm ³) | 20 < f > 100 |
| Elongation (%) | 60 < l > 300 |
| Hardness (Hv) | 95 ± 5 |
| Density (g/cm ³) | 3.70 ± 0.2 |
| Saturation Field Strength | 10 KOe, 800 KA/m |
| Flexibility | No crack when twisting around a testing bar diameter 20-60mm |
| Twist | No crack at twist with 180° twice |

Material Grades

| Material | Isotropic/ Anisotropic | Remanence | | Coercivity | | Intrinsic Coercivity | | Max. Energy Product | |
|-----------|---------------------------|------------|------------|---------------|-------------|----------------------|-------------|-------------------------------------|-----------------------|
| | | Br (mT) | Br (Gs) | bHc (kA/m) | bHc (Oe) | iHc (kA/m) | iHc (Oe) | (BH) max (kJ/m ³) | (BH) max (MGOe) |
| Flex-7L | Isotropic | 165±10 | 1650±100 | 108±8 | 1350±100 | 132±8 | 1650±100 | 5.2±0.4 | 0.65±0.05 |
| Flex-7H | Isotropic | 170±10 | 1700±100 | 112±8 | 1400±100 | 136±8 | 1700±100 | 5.6±0.4 | 0.70±0.05 |
| Flex-10 | Semi-aniso | 220±5 | 2200±50 | 136±8 | 1700±100 | 160±8 | 2000±100 | 8.0±0.4 | 1.00±0.05 |
| Flex-12 | Anisotropic | 245±5 | 2450±50 | 140±8 | 1750±100 | 148±8 | 1850±100 | 11.2±0.4 | 1.40±0.05 |
| Flex-12BH | Anisotropic | 247.5±2.5 | 2475±25 | 168±8 | 2100±100 | 224±8 | 2800±100 | 12.0±0.4 | 1.50±0.05 |

