



TECHNICAL DATASHEET

Flexible Magnets

Flexible magnetic sheet, strip, roll and converted components.



Ningbo Empire New Material Co.,Ltd
Ningbo Empire Imp&Exp; Co.,Ltd.
#2432 East BaiZhang Road, Ningbo,China
WhatsApp: +8613805876186
Website: empiremagnets.com

Technical Data 1

Application	Typical Spec	Why this material
Signage & displays	Isotropic 0.5-0.85 mm sheet	Printable, cuttable, replaceable
Door gaskets & seals	Extruded profile	Conformable closure/sealing profiles
Sensor targets	Anisotropic 1.0-1.5 mm	Multi-pole proximity target
Toys / educational	Isotropic sheet	Low-cost printable material
Small motors	Anisotropic rolled ring / strip	Flexible motor magnet geometry

Technical Data 2

Form	Typical thickness / geometry	Surface / laminate options	Magnetization	Typical use
Sheet / roll	Approx. 0.2-10 mm depending on grade/process	Plain, UV coat, PVC/PET/paper, PSA	Multipole / through-thickness	Signage, labels, sensors
Magnetic strip	Narrow slit rolls / cut lengths	Plain or adhesive	Single-face multipole	Retail, closures, labels
Extruded profile	Custom cross-section	Binder / co-extruded features	Multipole / axial depending design	Door gaskets, seals
Die-cut part	Custom 2D geometry	Printable / adhesive / laminate	Pattern selected for function	OEM converted components

Technical Data 3

Grade Type	Br	Hc	Hci	(BH)max	Max Operating Temp
Isotropic	1.4-1.7 kG / 140-170 mT	1.0-1.3 kOe / 80-104 kA/m	1.3-1.7 kOe / 104-136 kA/m	0.5-0.8 MGOe / 4.0-6.4 kJ/m ³	80-100 deg C
Semi-Anisotropic	1.8-2.1 / 180-210	1.4-1.7 / 112-136	1.8-2.2 / 144-176	0.8-1.1 / 6.4-8.8	80-100 deg C
Anisotropic	2.2-2.5 / 220-250	1.8-2.2 / 144-176	2.4-3.0 / 192-240	1.1-1.4 / 8.8-11.2	100-120 deg C

Technical Data 4

Product Form	Magnetic Grade	Surface / Lamination	Thickness	Max Width	Typical Supply
Plain magnetic sheet	Isotropic / Semi / Anisotropic	Plain / UV coating	0.2-10 mm	up to 1,524 mm	Sheets / rolls
Print-Mag laminate	Isotropic / Semi / Anisotropic	PVC, PET, PP, paper	0.3-2.0 mm	up to 1,524 mm	Rolls / sheets
Inkjet media	Standard / high performance	Waterproof matte / gloss	0.35-1.0 mm	600 mm-1.52 m	Rolls
Car magnet	High performance	Printed PVC/PET + backing	0.35-1.0 mm	up to 1,000 mm	Sheets / rolls
Desktop / craft	Isotropic	Plain / printable / adhesive	0.4-1.0 mm	A4 / Letter / custom	Pads / sheets

Technical Data 5

Process	Typical Tolerance	Notes
Die-cut	+/-0.3 mm	Economical production shapes
Profile / laser cut	+/-0.1 mm	Tighter custom shapes
Thickness	+/-0.05 mm	Calendered sheet
Extruded profile	+/-0.2 mm	Cross-section dependent

Engineering note

Values are reference specifications unless explicitly stated as guaranteed on a quotation or approved drawing. Final grade, geometry, tolerance, coating, magnetization, operating temperature and validation requirements must be confirmed for the actual application.