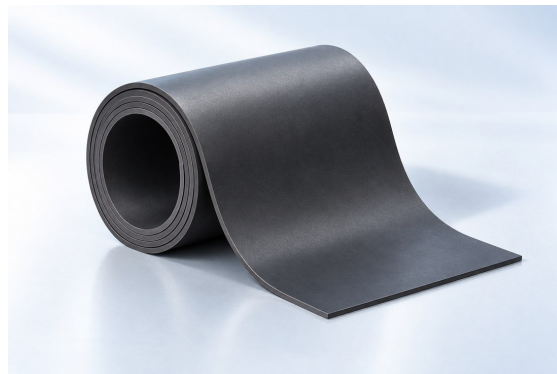


MATERIAL REFERENCE

Flexible Magnets

A structured reference for comparing catalogue grades and defining the conditions needed for your application.



Product illustration. Geometry and configuration are project-specific.

Selection conditions.

Format and conversion

Specify sheet, roll, strip or finished die-cut part, including width, length, hole pattern, slit layout and winding direction.

Pole pattern

Provide pole pitch, face orientation, multi-pole direction and the mating steel or magnetic target used in the application.

Bond system

State adhesive type, liner, substrate, surface preparation, peel target and application temperature.

Flex and environment

Define minimum bend radius, repeated flex cycles, temperature, humidity, cleaners, UV exposure and storage conditions.

MATERIAL DATA

Catalogue grade reference.

Catalogue figures support initial selection. They are not a lot test report or an approved project specification. The source does not state a complete test basis for these values; agree temperature, sample geometry, magnetization state, method and acceptance limits before use.

Grade Type	Br kG / mT	Hc kOe / kA/m	Hci kOe / kA/m	(BH)max MGOe / kJ/m³	Temperature conditions
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/m³	Confirm binder and duty
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	Confirm binder and duty
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	Confirm binder and duty

Project-specific cells intentionally omit values that need clarification. No replacement value or unit conversion has been inferred.

APPLICATION REVIEW

Specify the finished part.

Pull-force method

Measure magnetic pull using the actual steel thickness, air gap, contact area and fixture. A catalogue pull value is not a system guarantee.

Dimensional conversion

Inspect cut profile, hole position, slit width, liner placement and edge quality against the released drawing.

Adhesive durability

Run the agreed temperature, humidity, peel or shear exposure on the actual substrate and surface preparation.

Magnetization consistency

Verify pole pitch, polarity and face orientation at the start, middle and end of converted rolls or lots.

Define the next step.

Share your drawing, application conditions and target quantity for a material or assembly review.

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ABOUT THIS EDITION

New editorial reference edition 2026.09-R1, compiled 2026-09-27. Catalogue data and selection questions are reorganized for clarity. This edition does not record an engineering approval or certify a measured production result.

Source: Empire Magnets existing product catalogue and technical-library archive. For a project-controlled specification, request an engineering review.