



PLASTIFORM®

CALENDERED FLEXIBLE MAGNETS

High Energy Flexible Magnetic Material



Flexmag's PLASTIFORM® High Energy Flexible Magnets are engineered specifically for applications requiring an increased magnetic field while still maintaining the flexibility of a bonded magnet in environments involving high temperatures, wide temperature ranges, and/or contact with corrosive materials. These improved

magnetic and physical characteristics put PLASTIFORM® High Energy Flexible Magnets in a class above standard flexible magnets. So, when you are looking for a higher level of flexible magnets, use PLASTIFORM® High Energy Flexible Magnets.

Flexibility and resiliency - Design innovations and automated manufacturing techniques are more practical with flexible PLASTIFORM® magnets, which do not chip or shatter like hard and brittle ceramic barium ferrite materials.

Ease of fabrication - PLASTIFORM® magnets offer inherently low tooling costs and can be readily machined, cut, slit, punched, drilled or milled into simple or intricate shapes.

High magnetic strength - The ferrite particles in PLASTIFORM® magnets are oriented as they are processed, providing magnetic properties equal to, or exceeding, those of conventional isotropic ceramic ferrite magnets.

Cost reductions - Greater design latitude and more efficient production methods made possible by its unique properties contribute to reduced costs in many stages of product development.

Temperature resistance - PLASTIFORM® Magnet Tape, Strips, and Sheeting retain their flexibility even in cold weather. These products perform well, indoors or out, in hot or cold climates. Extensive testing at temperatures ranging from -40°F to 160°F (-40°C to 71°C) has documented the broad range of capability of both the adhesive and the magnetic holding force.

Clean, safe handling - The magnetic side of PLASTIFORM® Magnet Tape, Strips, and Sheeting is specially coated to ensure clean attachment. This coating also resists the external physical conditions that might otherwise result in adhesive bonding between magnet and application surface. Newly painted surfaces should be allowed adequate drying time before application of these products.

Why Choose PLASTIFORM®?

Available Energy Products:

1.0 to 1.6 MGOe

Available Thicknesses:

0.030" to 0.375"

Available Packaging:

Rolls, cut to length strips and pieces

Available Roll Sizes:

Widths – up to 24", Lengths – up to 3,000'

Available Finishes:

Plain, indoor adhesive, outdoor adhesive, film laminate, and thin metal laminate

Available Magnetizing Patterns:

1 & 2 Poles Each Side (PES)

4, 6, 8, 11, 18 Poles per Inch (PPI),

Custom patterns

Applications

Position Sensors

Chip/Debris Collection

Holding/Mounting Applications

Automated Guidance Systems

Automated Storage Systems

Industrial Sprinkler Systems

Anti-Lock Braking Systems

Medical Devices

Magnetic Signage Systems

All products can be delivered in magnetized or unmagnetized condition and are available by truckloads or in small quantities for prototyping. Special magnetizing patterns may require custom fixturing.

Anisotropic magnet with strontium ferrite composite material and EPDM rubber binder

UV resistant EPDM rubber is more stable for outdoor applications

PLASTIFORM® 1016 Magnetic Strip and Sheet

High energy level magnetic strip/sheet material

- ◆ 16 oz/in² holding force to bare steel / 8 oz/in² sliding force to polished steel
- ◆ Tested to withstand temperatures from -40°-160°F / -40°-71°C
- ◆ UV resistant - more stable for outdoor applications
- ◆ Custom slit widths on special quotation
- ◆ Available in two standard thicknesses and in widths from 1/4 in. to 24 in.

PLASTIFORM® 1316 and 1317 Magnet Tape

Pressure-sensitive 3M adhesive, high energy level magnetic material

- ◆ 16 oz/in² minimum holding force
- ◆ Tested to adhere and remain flexible at temperatures from -40°-160°F / -40°-71°C
- ◆ Easy application with pressure-sensitive adhesive backing
- ◆ Available in two thicknesses and in widths from 1/4 in. to 23 in.

Anisotropic magnet with strontium ferrite composite material and nitrile rubber binder

Chemical resistant nitrile rubber is safe to use in oil-related applications

PLASTIFORM® 1037 Permanent Magnet Material

Energy product 1.08 MGOe flexible permanent magnet

- ◆ Can withstand temperatures up to 200° F / 95° C
- ◆ Machinability permits simple and inexpensive shaping and assembly processing
- ◆ Resilience prevents chipping, cracking or shattering
- ◆ Close dimensional and magnetic tolerances allow substantial cost reductions



PLASTIFORM® 1044/1046 Magnet Material

Energy product 1.4 MGOe flexible permanent magnet

- ◆ Can withstand temperatures up to 250° F / 120° C
- ◆ For Flexographic applications

PLASTIFORM® 1530/1533 Magnet Material

Energy product 1.4/1.6 MGOe flexible permanent magnet

- ◆ Can withstand temperatures up to 250° F / 120° C
- ◆ Roll goods or punched parts
- ◆ Laminated with adhesives up to 0.150 in. in thickness if desired

Certs & Lists

Flexmag is ISO 9001:2015 certified and Plastiform products are Reach and RoHS2 compliant.



Arnold is a US-based corporation which is ITAR registered with the U.S. Dept. of State. We take pride in complying with applicable government requirements throughout our organization.



Flexmag™ Industries, Inc. has proudly manufacturing the highest quality flexible composite sheets, strips, and extrusions in the USA for over a quarter of a century. Flexmag flexible composites cover a wide range of applications for the aerospace, industrial, automotive and medical industries including X-ray and gamma ray radiation absorption, gasket materials, RFI/EMI shielding and more.

Call us today with your requirements.

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