
FRALOCK®
Leading the Way in Advanced Materials Solutions ®
SPECIALTY ENGINEERED
MATERIALS SOLUTIONS

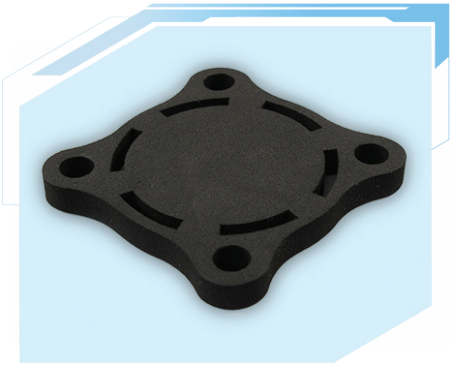
FRALOCK®

*Leading the Way in Advanced Materials Solutions ®*

# INTERFACE SOLUTIONS

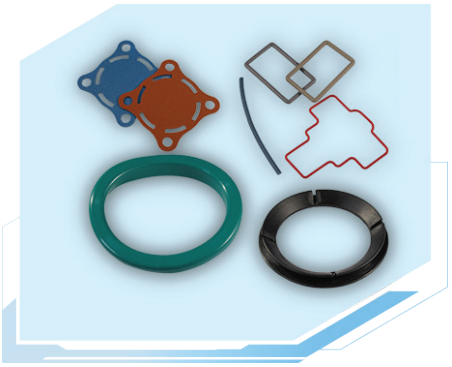
When your application requires specialized material components for managing thermal and electrical issues, you need a reliable, knowledgeable partner to supply the right solution.

OEMs in many industries rely on conductive thermal management and electrical EMI/RFI shielding to ensure optimal functioning and maximum lifetime of their equipment. Many applications generate high heat or countless temperature cycles, or operate in extreme environmental conditions that include chemical, physical, or thermal stresses.



Applications include:

- Thermal transfer, uniform thermal distribution
- Heat blocking
- Electrical insulation
- Protecting materials from plasma exposure
- EMI/RFI shielding
- Vibration dampening
- Sound attenuation
- Stick to skin applications



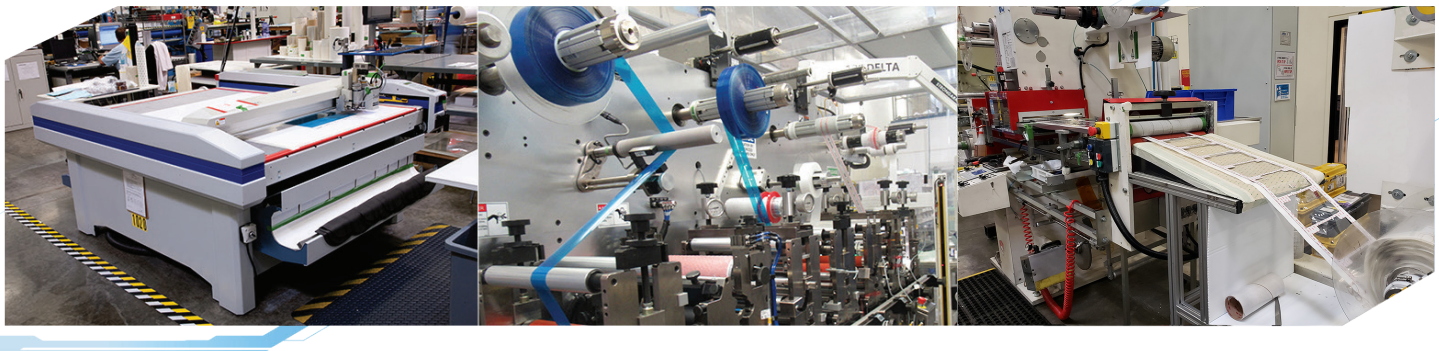
Fralock's components are custom made for your unique requirements, and include:

- Vacuum and liquid seals
- Gaskets
- Shims
- Tapes and films
- Thermal pads
- Gap pads
- Thermal pastes
- Filters

## Capabilities

With over 50 years in the industry, Fralock is the expert in design, engineering, and production of advanced materials interface products for critical applications. We fabricate conductive, electrical, and insulative materials to provide the best solution for your application.

Fralock produces parts that fit the shape and size for your application using UV And $CO_2$ laser cutting, die-cutting, machining, slitting, heat press, laminating, adhesive lamination, welding, assembly and other value-added services. Our engineers work with you on material selection, design, and prototyping to full production.



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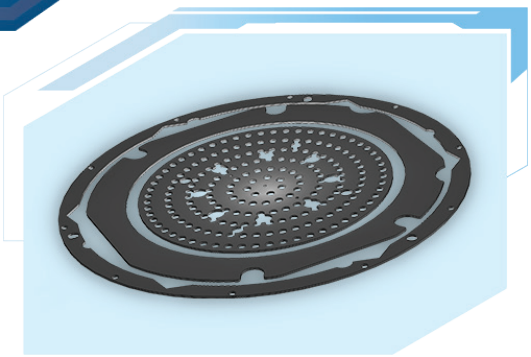
## Heat Spreading/Thermal Transfer

Materials include:

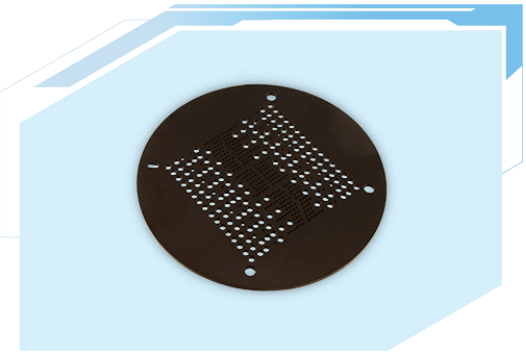
- Graphite
- Foil-based laminates
- Thermally conductive elastomers
- Electrical/Thermal conductive adhesives
- Nano materials



## Heat Blocking and Thermal Protection Barriers

Materials include:

- DuPont™ Cirlex®, a thick adhesiveless polyimide
- DuPont™ Nomex®
- DuPont™ Kapton®-based materials
- Aerogels - lightweight thermal interface materials
- Foams



## Vibration Dampening, Sound Attenuation, Attachment

Materials include:

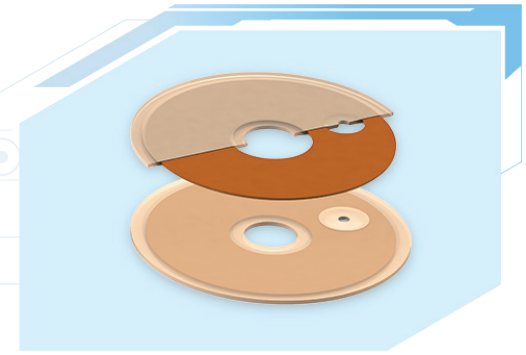
- Silicone
- Polyurethane
- Polyolefins
- Rogers Poron® (urethane foam)
- Rogers Bisco® (silicone foam)
- Specialty laminates
- Viton™
- Neoprene
- NBR (natural Buna rubber)
- EPDM
- 3M™ VHB™ (very high bond adhesives)
- Fluorosilicone foams and solids

## Plasma Protection

Coated and Encapsulated Materials

High-efficacy material solutions include:

- Teflon™-encapsulated Cirlex®
- Silicone-coated aluminum foil
- Thin, flexible graphite



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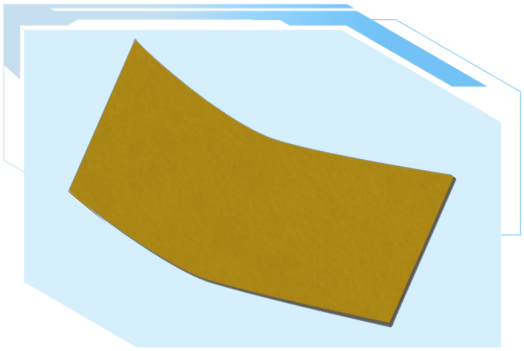
## Electrical Insulation

Materials include:

- Kapton®
- Formex®
- Nomex®
- Lexan™ - polycarbonate
- Mylar®, Melinex® - polyester, PET
- DuPont™ Cirlex®
- PEN
- PEEK
- Teflon™ - FEP, PTFE, PFA
- UHMW/HDPE

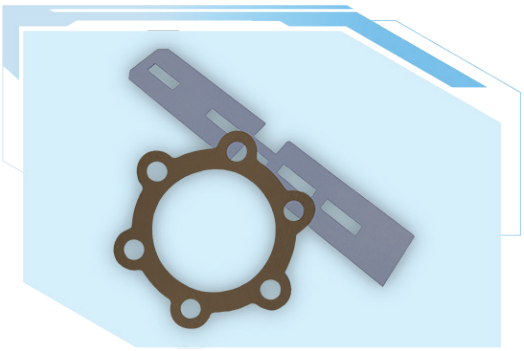


## Electrostatic Dissipation (ESD) for Power Electronics

ESD materials include: tapes, films, and foams

Materials include:

- Anti-Static polyethylene
- Static-Dissipative Kapton®
- Metalized polyester
- Metalized polyolefin
- Metalized polypropylene



## EMI/RFI Shielding and Absorbers*

Materials Include:

- Particle-filled silicones
- Oriented wire in silicone
- Expanded metal - woven screen cloth in elastomer
- Mesh/Elastomer combinations
- Ferrite-loaded elastomers
- Conductive foils, fabrics, tapes, and adhesives

**Select materials meet Mil spec Mil-DTL-83528*

**Stick to Skin Applications** – adhesives compatible with skin

Materials include:

- Release liners
- Acrylic Adhesives
- Silicone adhesives
- Polyurethane film