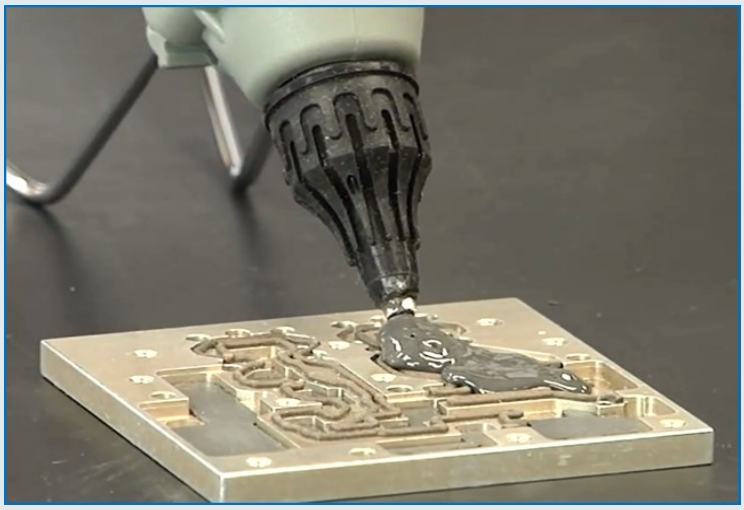
Hot Melt Absorbers

Hot Melt Overview

- ◊ Thermoplastic absorbers applied with a heat gun.
- ◊ Different hot melt products available depending on application and frequency requirement.
- ◊ Available in pellet or stick form factors.



Product Line

HM1000 ***Lightweight Dielectric Absorber***

HM1000 is ideal for applications that require a high frequency absorber above 10 GHz.

HM2000 ***1 to 18 GHz Magnetic Absorber***

HM2000 is ideal for high frequency applications, such as connectors, wiring, chips, etc., that require superior near-field EMI attenuation from 1-18 GHz.

HM3000 ***UHF Band Magnetic Absorber***

HM3000 was designed for low frequency EM radiation applications and is useful when suppressing noise from transformers, switching power supplies, and other VHF and UHF radiators.

HM5000 ***Hot Melt Shielding Solution***

HM5000 is a conductive hot melt shielding solution ideal as a direct replacement for potting and encapsulation compounds.

HM6000 ***Low Dielectric Potting Material***

HM6000 is a low loss and low dielectric constant hot melt ideal for use on high-speed connectors and traces where low dielectric materials are required for maintaining signal integrity.

ARC Technologies Inc. ▪ 37 South Hunt Road ▪ Amesbury, MA 01913
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TESTING CAPABILITIES:

Electrical Testing

Reflection Loss via NRL arch , 0.6 - 40 GHz
(TM-001, TM-002, TM-003, ASTM D5568)

Characterization of Permittivity and Permeability, 0.5 - 40 GHz, 75-110 GHz
(ASTM D7449, ASTM D5568, TM-004, ASTM D257, Focused Beam System)

Analytical Testing

Solution Viscosity (ASTM D2196)

SEM and Optical Microscopy

BET Surface Area Measurements (ASTM B922)

Skeletal Density via Pycnometer (ASTM B923)

Density (ASTM D792)

Particle Size Analysis via Laser Diffraction (ASTM B822)

Melt Index (ASTM D1238)

Environmental Testing

Accelerated Weathering (ASTM G155)

Weatherometer (ASTM G154)

Hydrostatic Test (ASTM D2837)

Salt Fog Testing (ASTM B117)

Fluid Soaks, Weight Gain, and Volume Swell after Fluids (ASTM D471)

Steam Autoclave Exposures (TM-005)

Acetone Extraction Testing (ASTM D494)

Mechanical Testing, -95°F - 500°F

Durometer and Compression Testing (ASTM D2240, ASTM D395)

Tensile Testing (ASTM D638, ASTM D412)

Flatwise Testing (ASTM C297)

180 Peel (ASTM D903)

Roller Peel (ASTM D3167)

Flexural Testing (ASTM D790-10)

Lap Shear (ASTM D494)

Thermal Testing

Dynamic Mechanical Analysis (DMA) (ASTM D5026)

Coefficient of Thermal Expansion (CTE) (ASTM D696)

Optical Testing

Color Measurement (CIELAB)

Haze and Optical Light Transmission (ASTM D1003)

Solutions for Interference Control

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