

DIELECTRIC MATERIALS

Low-Loss Radar Dielectrics

Printable dielectric for flexible electronics



TECHNOLOGY SUMMARY

Printable, PFAS-free dielectric composites and coatings designed for radar covers, RF windows, solder masks, and high-frequency electronics. Materials are engineered for low loss, environmental durability, and compatibility with existing substrates and printed electronics processes.

Final product: Printable, PFAS-free dielectrics for radar and RF packaging.



FUNDING AND OPPORTUNITY

The technology is currently at TRL 4 with Navy PII experience and lab validation of key properties. Seeking radar primes, RF module designers, and materials partners to test dielectric composites in covers, RF windows, and printed circuits, and to define qualification paths for fielded systems.

This collaboration offers a chance to be involved in pioneering research and inform future federal investment.



CAPABILITIES

- Low loss at radar frequencies
- PFAS-free, regulation-aligned formulations
- Flexible composite protective materials
- Printable inks for RF and flex circuits
- Durable in harsh naval environments
- Inks have range of viscosities and adequate pot life for various printing equipment

APPLICATIONS/INDUSTRIES

- Naval radar systems
- Aerospace (harsh) environments
- RF and microwave modules
- Printed electronics
- High-voltage insulation

Company Profile



Founded 2012



Billerica, MA



Nine Employees

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