

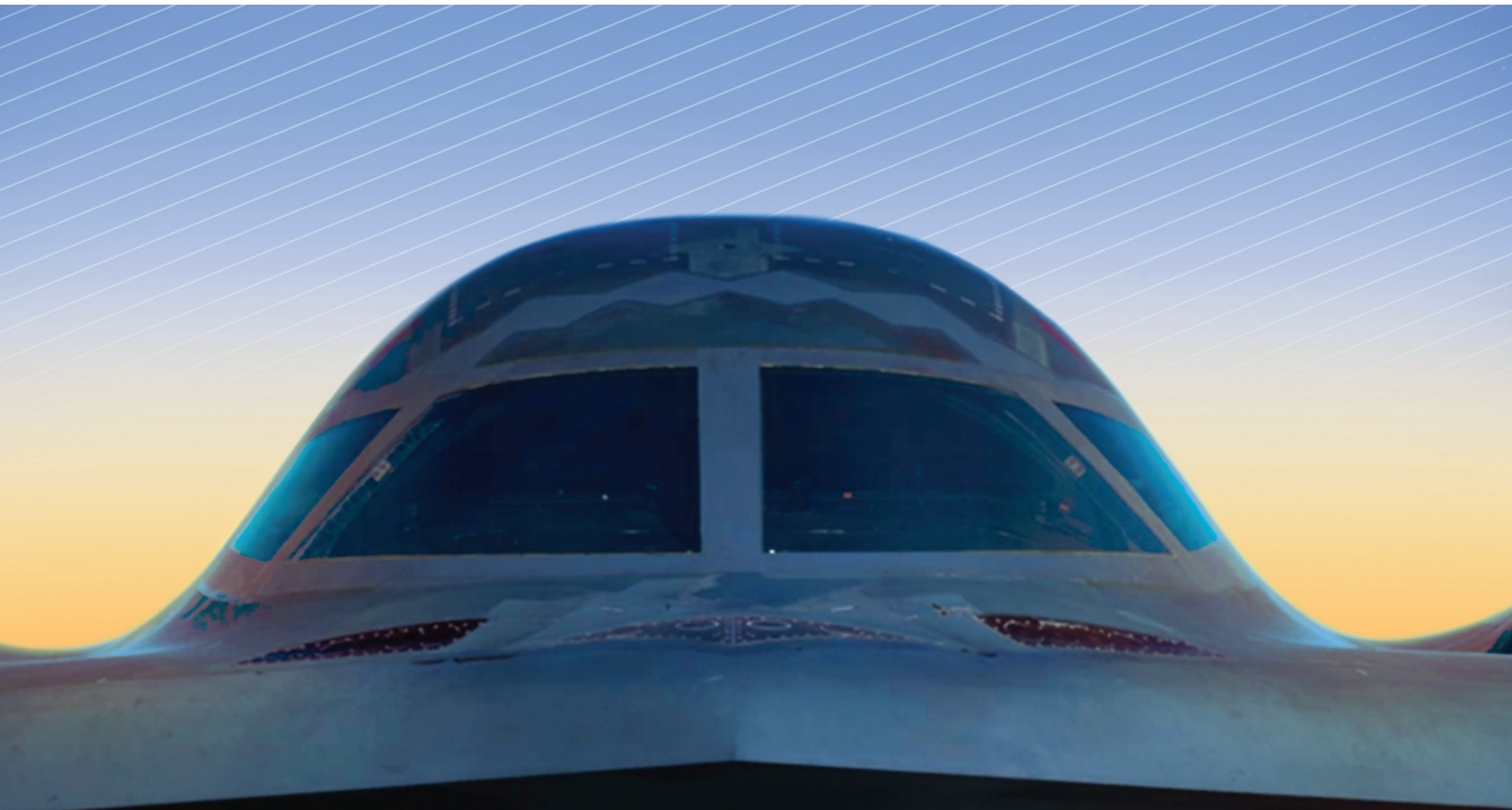
**TEIJIN**

Human Chemistry, Human Solutions

# PREPREG, RESIN & ADHESIVE MATERIALS

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**FOR HIGH PERFORMANCE AEROSPACE APPLICATIONS**





## RENEGADE MATERIALS CORPORATION IS THE GLOBAL HIGH TEMP LEADER

- Fabric and Unidirectional Prepreg
- Fabrics up to 60-in wide
- Unitape from 0.125" in to 24" Wide
- State-of-the-Art Equipment
- High-Rate Production Capacity
- Superior Customer Service and Technical Support
- Reliable Delivery
- All Prepregs Available on Carbon, S2-Glass, Astroquartz, E-Glass, Aramid and Other Reinforcements.

### Polyimide Materials

QUALIFIED ON MULTIPLE AEROSPACE PLATFORMS

- Non-MDA Chemistry and Green Manufacturing Processes
- Extensive Test Data for Thermal/Mechanical Properties
- Exposure Temperatures of 700°F and Higher
- Excellent Hot-Wet Properties
- Autoclave, Oven-Only and Compression-Molding Process Options
- Affordable Alternatives to Titanium and Thermal Insulation
- Polyimide Adhesive Products Offered as Film, Paste or Primer

PRODUCT	DESCRIPTION	DRY T <sub>g</sub> (DMA)	FEATURE
RM-1100	Polymide Prepreg	725-750°F	Unparalleled Hot-Wet Properties
AFR-PE-4	Polymide Prepreg	725°F	Qualified on Multiple Defense Platforms
RM-1066	Polymide Prepreg	620°F	Non-Structural Autoclave or OOA Curable
MVK-14M	Polymide Prepreg	590°F	NCAMP Database
RM-1010	Polymide Film Adhesive	700°F	Co-Cures with RM-1100
RM-1020	Polymide Film Adhesive	620°F	Low Temp OOA Initial Cure (350°F)
RM-1005-PASTE	Polymide Paste Adhesive	620°F	Low Temp OOA Initial Cure (350°F)
RM-1020-PASTE	Polymide Paste Adhesive	620°F	Reach Compliant Version of RM-1005-Paste
RTM-1100	Polymide RTM Resin	675-725°F	High Strength Retention in Extreme Environments
RM-6001 FireWalker	Polyceramic Prepreg	NA	Fire Barrier and Insulation Replacement Applications

# [ HIGH PERFORMANCE MATERIALS ]

## FOR ADVANCED DEFENSE AND COMMERCIAL APPLICATIONS

### Bismaleimide (BMI) Prepregs, Infusion Resins and Adhesives

- Next-Generation BMI Formulation Technology
- Cost Competitive Equivalent to Industry-Standard Product
- Improved Durability – Compression-After-Impact
- Superior Hot-Wet Performance
- Continuous Service Temperature up to 450°F
- Autoclave, Compression-Molding, RTM, VaRTM and Out-of-Autoclave Cure
- 375°F Cure



PRODUCT	DESCRIPTION	FEATURE
RM-3000	BMI RTM Resin (One Part)	Superior Hot/Wet Performance. Outstanding Damage Tolerance at Elevated Temperatures.
RM-3002	BMI Autoclave Prepreg	450°F Service & Exc. Handling
RM-3004	BMI Out of Autoclave Prepreg	Low Void OoA Parts
RM-3006	BMI Paste Adhesive	Honeycomb Close Out and Shim Paste
RM-3007	BMI Paste Hole Filler for Hard Points	Adhesive Hole Filler Used for Liquid Shim, Potting, or Hard Points
RM-3010	BMI VARTM Resin (One Part)	Extended Pot Life for Large, Complex Structures
RM-3011	BMI Film Adhesive	Available as Supported or Unsupported Film

### Cyanate Ester Prepregs

- Radome/Space/Satellite/Aircraft/Missile Applications
- Low-Outgas Chemistry
- Low-Dielectric/Loss
- Excellent Mechanical Properties
- Nano Tailored for High Thermal Conductivity

PRODUCT	DESCRIPTION	FEATURE
RM-5001	Space – Satellite Parts Stable – Optical Structures	Low Outgassing, Excellent Processing and Balance of Mechanical & Thermal Properties
RM-5003	Radomes of all Types and Sizes	Low Dk < 3.0, Very Low Loss < 0.003

## Epoxy Prepregs

- High-Performance Prepreg for Aircraft Applications
- Toughened Resins for Durability and Impact Resistance
- High Wet and Dry Tg



PRODUCT	DESCRIPTION	CURE TEMP	FEATURE
RM-2002	Standard Epoxy	350°F Cure	High Performance, General Purpose
RM-2005	Aerospace Grade Toughened Epoxy	350°F Cure	High Performance, Autoclave Cure, Toughened; Tg: 400°F Dry/310°F Wet
RM-2008	Modified Epoxy	250°F Cure	Good Balance of Properties Toughened Epoxy Prepreg

## Low Dielectric Epoxy Prepreg

- Maximum Electrical Performance
- Low-Cost Alternative to Cyanate Ester
- Modified Chemistry for Moisture Resistance and Mechanical Durability

PRODUCT	DESCRIPTION	CURE TEMP	FEATURE
RM-2014-LDk-TK	Low Dielectric Epoxy	300°F Cure Autoclave or Oven	Low Dk < 2.8, Low Loss <0.006 Tg: 310°F Dry, 270°F Wet
RM-2014-LDk-SYN	Low Dielectric Epoxy Syntactic Film	Cures with Epoxy Prepreg	Various Thicknesses Available

## INNOVATIONS THAT TAKE THE HEAT

Renegade Materials Corporation stands as a global leader in manufacturing composite materials for aerospace applications. We deliver light-weight, highly-engineered prepregs, adhesives and hybrid composite systems enabling maximum fuel efficiency in commercial and military aircraft structures.

For pricing or additional information on Renegade products, please call us at **937-350-5274** or visit our website at **RENEGADEMATERIALS.COM**.

Nadcap Non-Metallic Materials Manufacturing and Non-Metallic Materials Testing Accredited.

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