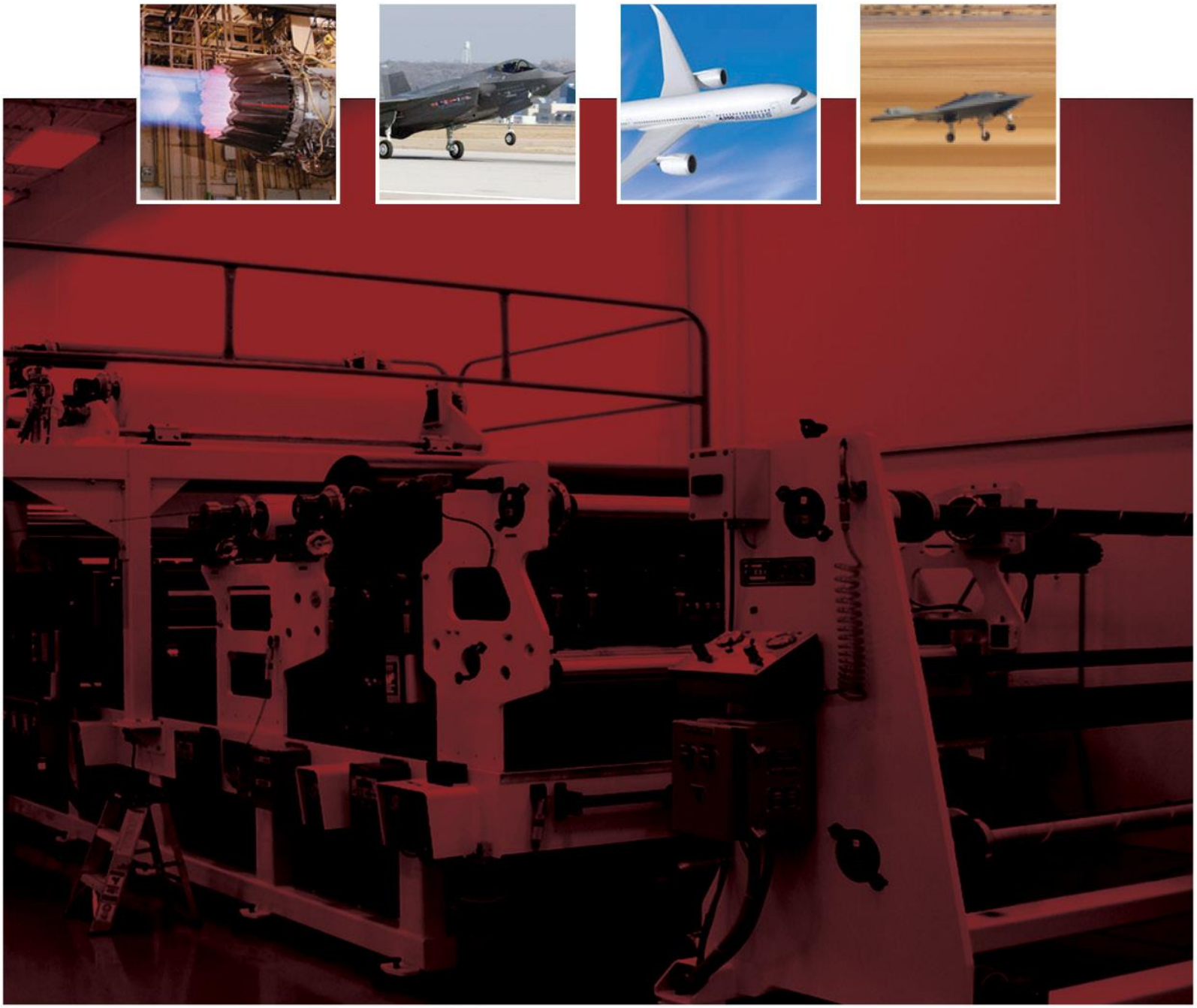
RENEGADE
MATERIALS CORPORATION

RM-1010
POLYIMIDE FILM ADHESIVE
FOR HIGH PERFORMANCE AEROSPACE APPLICATIONS



RM-1010
Polyimide Film Adhesive

RM-1010 is an addition-cure polyimide film, supported with an E-glass carrier. This product was formulated for use with the industry's highest service temperature polyimide prepregs, including RM-1100 and AFR-PE-4. RM-1010 adhesives provide excellent tack and drape, and out-time, and exhibit high-temperature performance in extreme environments.

- Standard width 12-inch or 24-inch
- RM-1010 Adhesive Film co-cures with RM-1100 Polyimide prepreg
- RM-1010 films are supported with E-glass scrim cloth for easy handling.
- Suitable for metallic, non-metallic, and honeycomb structure bonding
- Paste and Primer also available
- Excellent tack and drape, handling.
- No MDA (methylene dianiline) or other known carcinogenic ingredients

Typical Properties

Weight	0.06 or 0.10 ± 0.010 PSF
Volatiles	18-22 wt%
Cured thickness	5 – 7 mils
Tg (DSC)	700°F with post-cure
Shelf Life	12 months at 0°F

Typical Properties – PRIME-1010 Polyimide Primer Solution

Solids Content	8-12 wt%
Density	7 lb/gallon
Shelf Life	12 months at 0°F
Application	Spray or Brush
Recommended Drying	1 hr at 350°F

Properties – Lab Scale Testing	Test Condition	Result
Single Lap Shear on Titanium ASTM-D1002	75°F	2500 psi
Single Lap Shear on Composite ASTM-D1002	75°F 500°F	2800 psi 2600 psi

Experimental Cure Cycle
RM-1010 Polyimide Adhesive Material

- Step 1: Apply Mechanical Pressure
- Step 2: Heat to 350°C +/- 10°F at 1-5°C/minute
- Step 3: Hold for 120 minutes.
- Step 4: Cool at 5°C/minute maximum to T < 150°F

Recommended AUTOCLAVE Cure Instructions

- Cure: 5°F/minute to 675°F +/-10°F. Hold 2-hours in autoclave 10-15" Hg, 50-100-psia.

- Post-cure: Free standing, in air, 675°F for 2 hours

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