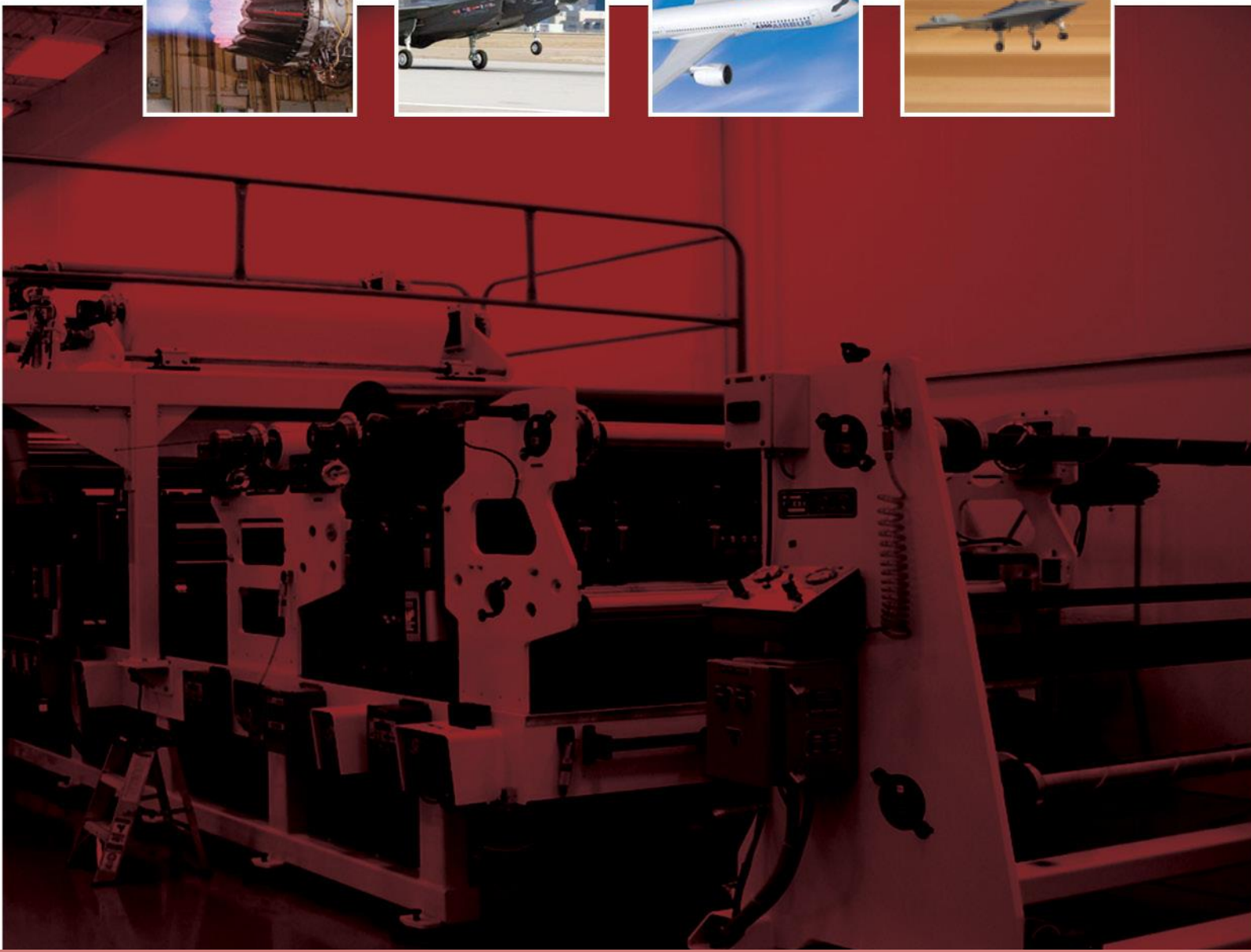
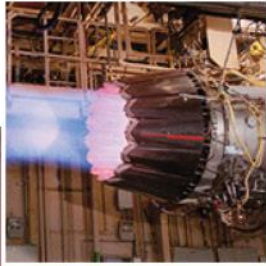


RM-1005 POLYIMIDE FILM ADHESIVE

FOR HIGH PERFORMANCE AEROSPACE APPLICATIONS





RM-1005

Polyimide Film Adhesive

RM-1005 high temperature adhesive is a condensation-cure polyimide film, supported with an E-glass carrier. RM-1005 provides good tack and drape, handling, and high temperature performance in extreme environments. Also available as a paste (RM-1005-PASTE) and a primer (PRIME-1005)

- Fast Lead-times, Low Min Buy
- Standard and Custom Film Weights Available
- Initial bonding cure at low-temp (350°F)
- Out-of-Autoclave (vacuum bag only) cure option
- Co-Curable with many polyimide prepreg materials
- Suitable for metallic, composite and sandwich bonding
- Can be used for repair applications
- Non-carcinogenic / No MDA (methylene dianiline)
- Optimum Service temperature with cure & post-cure

"Seller makes no warranty regarding the accuracy of this information. Buyers should make their own evaluation to determine suitability of any product for their own intended purposes."



RM-1005 Polyimide Film Adhesive Typical Properties

Standard Weights*	0.10 and 0.06 ± 0.010 PSF
Volatiles	22-28 wt%
Dry Tg (DSC)	620°F (327°C) (dependent on cure and post-cure used)
Shelf Life	6 months at 0°F (-18°C)

Custom Weights are available.

Mechanical Properties	Test Condition	Result	Cure Notes See page 3
Single Lap Shear on Titanium	75°F (24°C)	2600 psi (17.9 MPa)	1
	75°F (24°C)	2700 psi (18.6 MPa)	2
Single Lap Shear on Composite ³	75°F (24°C)	2500 psi (17.2 MPa)	1
	500°F (260°C)	2150 psi (14.8 MPa)	1
	550°F (288°C)	1675 psi (11.5 MPa)	1
	600°F (316°C)	1625 psi (11.2 MPa)	1
	650°F (343°C)	925 psi (6.4 MPa)	1
Flat-Wise Tension ⁴	75°F (24°C)	650 psi (4.5 MPa)	1
	600°F (316°C)	250 psi (1.7 MPa)	1

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Notes for Mechanical Property Table

1 - Cure conditions: 4°F(2.22°C)/min to 350°F (177°C) for 2 hours in autoclave with 15 in Hg (381 mm Hg) and 35 psi (0.24 MPa). Free standing post cure 600°F (316°C) for 2 hours

2 - Cure conditions: 4°F(2.22°C)/min to 350°F (177°C)for 2 hours in oven with full vacuum. Free standing post cure 600°F (316°C)for 2 hours

3 - AFR-PE-4 Polyimide-graphite composite laminates

4 - AFR-PE-4 Polyimide/T650-35 Carbon fabric laminates with 1/2" (1.3 cm) HRH327 polyimide honeycomb core, 3/16" (0.5 cm) cell size, 4.5 lb (2.0 kg) density

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Renegade Materials Corporation is a global leader in manufacturing composite materials for aerospace applications. We deliver light-weight, highly-engineered prepregs, adhesives and hybrid composite systems to enable 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 www.renegadematerials.com



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