

FM® 309-1

Adhesive

Cytec Industries Inc.

Message:

FM® 309-1 a next generation adhesive film for bonding composite and metallic structures. This new film provides a unique combination of high Tg [182°C (360°F)], high toughness and higher temperature shear properties. FM 309-1 is designed for co-cure, co-bond or secondary bonding applications and is compatible with most 177°C (350°F) curing epoxy-based prepreg systems. This new film has excellent resistance to pre-bond and post-bond humidity and has a service temperature of 177°C (350°F). FM 309-1 adhesive film provides excellent handling properties (good tack and drape) and has a minimum shop life of 30 days at 24°C (75°F). FM 309-1 adhesive can be supplied as a supported (woven glass, knit or mat carrier) or unsupported film at various weights and thicknesses. For co-cure or co-bond applications, adhesive film weight of 147 - 244 gsm (0.030 - 0.050 psf) with mat carrier is recommended. This adhesive film is suitable for bonding of monolithic or sandwich structures. Honeycomb sandwich panels manufactured using FM 309-1 adhesive film demonstrate excellent laminate quality (void content <1%) and very good filleting. FM 309-1 adhesive film can be cured at 177°C (350°F) in 90 minutes at 0.28 MPa (40 psi) or can also be cured under vacuum-only pressure. The performance after vacuum cure is comparable to that after pressure cure.

Suggested Applications:

Bonding of composite and metallic structures

Co-cure, co-bond and secondary bonding applications

General Information		
Features	Good Adhesion	
	Good Toughness	
Uses	Adhesives	
	Bonding	
	Laminates	
Appearance	Red	
Forms	Film	
Physical	Nominal Value	Unit
Specific Gravity	1.12	g/cm ³
Additional Information	Nominal Value	Unit
Volatiles	< 1.0	%

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT