

FM® 300

Epoxy; Epoxide

Cytec Industries Inc.

Message:

FM® 300 is a modified epoxy film adhesive available with three different moisture-resistant polyester carriers. It is designed for bonding metal-to-metal and sandwich composite structures. To achieve ultimate environmental resistance in bonding aluminum details, use pre-cured BR® 127 primer with FM 300 film adhesive. Extensively used as a surface finished ply on composites material outside layers, FM 300 film adhesive has unique properties which drastically reduce, and in some cases virtually eliminate, time-consuming sanding and filling operations. FM 300 film adhesive has high elongation and toughness with high ultimate shear strength. This makes it particularly suitable for redistributing the high shear stress concentrations of graphite epoxy-to-metal bonds, and allows it to accommodate the low interlaminar shear strength of the composite. It is particularly good in fatigue resistance in these joints. In properly designed and processed joints, the tight-knit tricot carrier provides a degree of electrical isolation between metal and graphite composites to reduce galvanic corrosion.

Suggested Applications:

Metal-to-metal bonding

Composite-to-composite bonding

Composite-to-metal bonding

Composite surfacing

General Information		
Features	Fatigue Resistant	
	Good Adhesion	
	Good Toughness	
	High Elongation	
	High Heat Resistance	
	Humidity Resistant	
Uses	Adhesives	
	Bonding	
Appearance	Blue	
Forms	Film	
Mechanical	Nominal Value	Unit
Tensile Strength ¹ (24°C)	7.55	MPa
Shear Strength (24°C)	35.5	MPa
Additional Information	Nominal Value	Unit
Volatiles	< 1.0	%
NOTE		
1.	Flatwise	

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