## FM® 450-1

## Maleic Anhydride Grafted Polymer

Cytec Industries Inc.

## Message:

FM® 450-1 film adhesive is a next generation high performance BMI adhesive for bonding both composite and metallic structures. This new adhesive provides a unique combination of high Tg, toughness and high temperature shear properties. It is designed for co-cure, co-bond or secondary bonding applications. FM 450-1 has excellent resistance to pre-bond and post-bond humidity and has good retention of properties up to 232°C (450°F). FM 450-1 film adhesive delivers excellent tack and drape and has a minimum shop life of 30 days at 24°C (75°F). FM 450-1 is compatible with Cytec's industry leading CYCOM® 5250-4 BMI prepreg and our new CYCOM® 5261 toughened BMI prepreg. FM 450-1 adhesive film can be supplied as a supported (woven glass or glass mat carrier) or unsupported film at various weights and thicknesses. This adhesive film is suitable for bonding of metallic or composite monolithic or sandwich structures. The unsupported adhesive film can be easily reticulated onto perforated skins or honeycomb for acoustic applications. FM 450-1 adhesive film can be cured at 190°C (375°F) followed by a freestanding post cure at 227°C (440°F) or by following the BMI prepreg cure cycle.

Suggested Applications:

Co-cure, co-bond and secondary bonding of both composite and metallic structures

General Information			
Features	Good Adhesion		
	Good Toughness		
	High Heat Resistance		
	Humidity Resistant		
Uses	Adhesives		
O See S	Bonding		
	bonding		
Appearance	Yellow		
Forms	Film		
Physical	Nominal Value	Unit	
Specific Gravity	1.25	g/cm³	
Cured Properties	Nominal Value	Unit	Test Method
Lap Shear Strength			
24°C <sup>1</sup>	43.4	MPa	
24°C <sup>2</sup>	23.3	MPa	ASTM D1002
NOTE			
	Before Postbond Humidity Exposure, Composite Bonding: Co-bonded Wide Area Lap Shear with CYCOM 2561 Pre-cured		
1.	Substrates	-	
2.	Lap Shear with Aluminum Substrates		

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.

## 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

