

# FM® 475

Maleic Anhydride Grafted Polymer

Cytec Industries Inc.

## Message:

FM® 475 is a BMI syntactic core material which is reinforced with hollow glass micro-balloons. FM 475 syntactic core is designed as a cost and/or weight saving alternative in the manufacture of thin [below 0.20 inches (5.1 mm) thick], stiffness critical composite panels. FM 475 syntactic core is based on CYCOM® 5250-4 resin chemistry to provide a high temperature capability with a service rating up to 425°F (218°C). It is compatible with CYCOM 5250-4 prepreg and other BMI resin systems. FM 475 will co-cure with these composites without the use of an adhesive film. Standard FM 475 is supplied with a 104 glass scrim as a carrier, which improves handling characteristics in addition to increasing the material's flexural strength. Alternate carriers such as carbon, glass or Kevlar® mat can be provided upon request. FM 475 is supplied in sheet or roll form between two layers of release paper.

## Suggested Applications:

Thin composite panels where weight, cost and/or stiffness are critical

General Information			
Filler / Reinforcement	Glass Bubble		
Features	Good Strength		
	High Heat Resistance		
	High Stiffness		
Uses	Structural Parts		
	Thin-walled Parts		
Appearance	Yellow		
Forms	Sheet		
Physical	Nominal Value	Unit	
Specific Gravity	0.609 to 0.673	g/cm <sup>3</sup>	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (24°C)	12.4	MPa	
Compressive Strength <sup>2</sup>			ASTM D695
177°C	75.8	MPa	
24°C	114	MPa	
Thermal	Nominal Value	Unit	
Glass Transition Temperature <sup>3</sup>	260	°C	
Additional Information	Nominal Value	Unit	
Volatiles	< 3.0	%	
NOTE			
1.	Flatwise tensile		
2.	Block compression		
3.	TMA		

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Recommended distributors for this material

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