

# FM® 6555-1

Adhesive

Cytec Industries Inc.

## Message:

FM® 6555-1 is a cyanate ester syntactic core material. It was designed as a cost and weight saving alternative in the manufacture of thin, stiffness critical composite panels for low dielectric applications and satellite structures. FM 6555-1 syntactic core is based on CYCOM® 5575-2 glass and quartz cyanate ester prepregs, FM 2555 and FM 2525 structural film adhesives and FM 313-27C syntactic paste, providing a compatible family of products. FM 6555-1 is available in sheet or roll form (availability in roll form is dependent on product thickness).

### Suggested Applications:

Thin composite panels for low dielectric applications and space structures where weight and/or cost are critical

General Information			
Features	Good Adhesion		
	High Stiffness		
Uses	Adhesives		
	Reinforced Panels		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.513 to 0.577	g/cm <sup>3</sup>	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70 to 73		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (25°C)	17.9	MPa	ASTM D638
Flexural Strength	19.3	MPa	ASTM D790
Compressive Strength			ASTM D1621
149°C <sup>2</sup>	27.6	MPa	
149°C <sup>3</sup>	44.8	MPa	
25°C <sup>4</sup>	51.7	MPa	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature <sup>5</sup>	200	°C	ASTM E1356
Electrical	Nominal Value		Test Method
Dielectric Constant (10.0 GHz)	1.60		ASTM D2520
Additional Information	Nominal Value	Unit	
Volatiles	< 1.0	%	
NOTE			
1.	Dry		
2.	Wet		
3.	Dry		
4.	Dry		
5.	Dry by DMA		

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