

# VTM® 243FRB

Epoxy; Epoxide  
Cytec Industries Inc.

## Message:

VTM243FRB and VTM244FRB are 65°C to 180°C (149°F to 356°F) curing, black- pigmented, fire-retardant epoxy resins developed for low-cost manufacturing of medium to large composite structures by oven vacuum bag processing.

The two resins differ in rheology and tack, but not in mechanical performance of the cured laminate they produce. VTM243FRB is higher in viscosity and lower in tack, for lightweight reinforcements, and high quality surface plies. VTM244FRB has been formulated for heavy reinforcements and for rapid lay-up of bulk plies. The two resins may be co-cured in the same laminate.

Black pigmentation is recommended for optimum aesthetic appearances. Un-pigmented variants can be produced for special applications.

General Information		
Features	Autoclavable	
	Flame Retardant	
	Good Surface Finish	
	Heat Cure	
	High Heat Resistance	
	Self Extinguishing	
Uses	Laminates	
Forms	Fabric	
Processing Method	Vacuum Forming	
Physical	Nominal Value	Unit
Specific Gravity <sup>1</sup>	1.27	g/cm <sup>3</sup>
Thermal	Nominal Value	Unit
Glass Transition Temperature		
-- <sup>2</sup>	69.0	°C
-- <sup>3</sup>	177	°C
NOTE		
1.	Cured resin	
2.	DMA E' onset Tg, 16 hours at 65°C (149°F)	
3.	DMA E' onset Tg, 1 hour at 180°C (356°F)	

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