

# Cytec BPS240 format 1

Epoxy; Epoxide  
Cytec Industries Inc.

Message:

BPS240 is a two-ply, partially impregnated epoxy prepreg system designed for the manufacture of Body-In-White (BIW) panels with excellent surface quality from vacuum-only processing at cure temperatures between 85°C and 150°C (185°F and 302°F). The first ply utilises Cytec's ZPREG partial impregnation technology, consisting of a structural fabric coupled to a surface scrim and a high performance resin system. The second ply combines low-density syntactic core material and structural fabric to create significant panel rigidity in a rapid laminating format. The system is designed to be ready for painting without abrading or reworking; in many instances, paint can be applied directly to a degreased panel. Excellent environmental performance can be expected from panels painted in Hi-Bake & Lo-Bake paint systems.

General Information		
Filler / Reinforcement	Carbon Fiber	
	Glass Fiber	
Features	Flame Retardant	
	Good Surface Finish	
	Heat Cure	
	High Rigidity	
	Paintable	
	Self Extinguishing	
Uses	Automotive Applications	
	Reinforced Panels	
	Structural Parts	
Processing Method	Vacuum Forming	
Physical	Nominal Value	Unit
Specific Gravity		
-- 1	0.950	g/cm <sup>3</sup>
-- 2	1.23	g/cm <sup>3</sup>
Thermal	Nominal Value	Unit
Glass Transition Temperature		
-- 3	118	°C
-- 4	163	°C
CLTE - Flow		
-- 5	4.2E-6	cm/cm/°C
-- 6	1.7E-5	cm/cm/°C
NOTE		
1.	Cured resin, VTS243FR	
2.	Cured resin, VTF242FRB	

3.	DMA E' onset Tg, 1 hour at 120°C (248°F)
4.	DMA E' onset Tg, 1 hour at 120°C (248°F) + 1 hour at 180°C (356°F)
5.	Carbon
6.	Glass

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#### Recommended distributors for this material

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