

CYCOM® 977-2

Epoxy; Epoxide
Cytec Industries Inc.

Message:

CYCOM® 977-2 is a 350°F (177°C) curing toughened epoxy resin with a 260 - 280°F (126 - 138°C) dry and 220°F (104°C) wet service capability. CYCOM 977-2 is formulated for autoclave or press molding. Unidirectional tape and woven fabric impregnated with CYCOM 977-2 resin will retain tack for at least 10 days at 72°F (22°C) and has a long mechanical out life suitable for fabrication of large structures. The recommended lay-up procedure for this material is L-15. The recommended cure is C-50.

Suggested Applications:

Aircraft primary and secondary structure

Space structure

Ballistics

Cryogenic tanks

Any application where impact resistance and light weight are required

General Information		
Features	Autoclavable	
	Good Toughness	
	Heat Cure	
	High Impact Resistance	
Uses	Aerospace Applications	
	Structural Parts	
	Tanks	
Forms	Fabric	
	Fiber	
Processing Method	Press Molding	
Physical	Nominal Value	Unit
Specific Gravity ¹	1.31	g/cm ³
Mechanical	Nominal Value	Unit
Tensile Modulus ² (24°C)	3380 to 3650	MPa
Tensile Strength ³ (24°C)	70.3 to 92.4	MPa
Flexural Modulus ⁴	3380 to 3520	MPa
Flexural Strength ⁵	190 to 204	MPa
Thermal	Nominal Value	Unit
Glass Transition Temperature ⁶	212	°C
NOTE		
1.	Neat Resin	
2.	Neat Resin	
3.	Neat Resin	
4.	Neat Resin	

5.	Neat Resin
6.	RDS, (10°C/minute)

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Recommended distributors for this material

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