

# CYCOM® 890 RTM

Epoxy; Epoxide

Cytec Industries Inc.

## Message:

CYCOM® 890 RTM is a one-part liquid epoxy resin system. It has one month out-life at room temperature which reduces the time required for the freeze-thaw-storage processes in a production environment. Its frozen storage shelf-life is 12 months at -18°C (0°F).

CYCOM 890 RTM's viscosity is low enough at 80°C (175°F) to allow injection without excessive heating of either the resin or the transfer pipework. When the resin is heated to cure temperature its viscosity is further reduced, helping to ensure full wet-out of the reinforcing fibers. CYCOM 890 RTM is fully cured after two hours at 180°C (355°F) after which it will have a continuous dry service performance of 170°C (338°F) and a continuous hot/wet service performance of 160°C (320°F)

If needed, an optional free-standing postcure for two hours at 200°C (390°F) can be used. After postcure the resin will have a continuous dry service performance of 195°C (383°F) and a continuous hot/wet service performance of 170°C (338°F). CYCOM 890 RTM is compatible with the range of reinforcing fibers used in manufacturing composite components, i.e., carbon, glass, aramid, etc.

A fully compatible binder system, CYCOM® 7720 has been developed for use with CYCOM 890 RTM. The binder is available pre-coated onto fabric. A separate datasheet for CYCOM 7720 is available on request.

General Information		
Features	Heat Cure	
	Low Viscosity	
Uses	Aerospace Applications	
	Fittings	
	Housings	
Forms	Liquid	
Physical	Nominal Value	Unit
Specific Gravity <sup>1</sup>	1.22	g/cm <sup>3</sup>
Mechanical	Nominal Value	Unit
Tensile Modulus <sup>2</sup> (24°C)	3030	MPa
Tensile Strength <sup>3</sup> (24°C)	68.9	MPa
Tensile Elongation <sup>4</sup> (Break)	6.3	%
Flexural Modulus <sup>5</sup>	3130	MPa
Flexural Strength <sup>6</sup>	136	MPa
Shear Modulus <sup>7</sup>	1170	MPa
NOTE		
1.	Neat Resin	
2.	Neat Resin	
3.	Neat Resin	
4.	Neat Resin	
5.	Neat Resin	
6.	Neat Resin	
7.	Neat Resin, 180°F	

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