

CYCOM® 823 RTM

Epoxy; Epoxide

Cytec Industries Inc.

Message:

CYCOM® 823 RTM is a liquid epoxy resin system. It is primarily available as a one-part system, with one working week out-life at room temperature so as to remove the requirement for customers to carry out resin mixing and its associated quality control processes. Its frozen storage shelf-life is 6 months at 0°F (-18°C). If extended ambient storage is required then the resin could be supplied as a two-part system.

CYCOM 823 RTM's viscosity is low enough at room temperature to allow injection without having to heat either the resin or the transfer pipework. When the resin is heated to the cure temperature its viscosity is further reduced, helping to ensure full wet-out of the reinforcing fibers.

CYCOM 823 RTM is fully cured after one hour at 255°F (125°C) giving a continuous dry service performance of 230°F (110°C) and a continuous hot/wet service performance of 195°F (90°C). CYCOM 823 RTM neat resin has high elongation, high G IC and high K IC values, all of which are indicative of a tough material.

CYCOM 823 RTM is compatible with the usual range of reinforcing fibers utilized for the manufacture of composite components, i.e., carbon, glass, aramid, etc. For reinforcement preforming operations a fully compatible binder system, CYCOM® 790 RTM has been developed for use with CYCOM 823 RTM. The binder is available pre-coated onto fabrics of the customers' choice. A separate datasheet for CYCOM 790 is available on request.

General Information		
Features	Good Toughness	
	Heat Cure	
	High Elongation	
	Low Viscosity	
Forms	Liquid	
Physical	Nominal Value	Unit
Specific Gravity ¹	1.23	g/cm ³
Mechanical	Nominal Value	Unit
Tensile Modulus ² (24°C)	2830	MPa
Tensile Strength ³ (24°C)	77.9	MPa
Tensile Elongation ⁴ (Break)	8.8	%
Flexural Modulus ⁵	3310	MPa
Flexural Strength ⁶	141	MPa
Shear Modulus ⁷	1100	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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT