

## CYCOM® 823 RTM

Epoxy; Epoxide

Cytec Industries Inc.

### Описание материалов:

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 supplies 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.

Главная Информация		
Характеристики	Хорошая прочность	
	Термическое лечение	
	Высокое удлинение	
	Низкая вязкость	
Формы	Жидкость	
Физический	Номинальное значение	Единица измерения
Удельный вес <sup>1</sup>	1.23	g/cm <sup>3</sup>
Механические	Номинальное значение	Единица измерения
Модуль растяжения <sup>2</sup> (24°C)	2830	MPa
Прочность на растяжение <sup>3</sup> (24°C)	77.9	MPa
Удлинение при растяжении <sup>4</sup> (Break)	8.8	%
Флекторный модуль <sup>5</sup>	3310	MPa
Flexural Strength <sup>6</sup>	141	MPa
Модуль сдвига <sup>7</sup>	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	

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