

9824A/B EPOXY RESIN SYSTEM FOR WINDING MOLDING TECHNICAL DATA SHEET

Description

9824A is modified bisphenol A epoxy resin, and 9824B is modified amine curing agent.

This product has low mixing viscosity, moderate pot life, and good wettability to carbon fiber and glass fiber.

The cured product has excellent mechanical properties and heat resistance, as well as high toughness and crack resistance.

Typical Properties

Typical Performance		Indicator Range	Unit	Reference Standards
Conventional Physical and Chemical Indicators				
9824A	Appearance	White to light yellow liquid	/	/
	Epoxy Equivalent	165-180	g/mol	GB/T 4612
	Viscosity (25 ° C)	1200-1400	mPa.s	GB/T 22314-2008
9824B	Appearance	Colorless or light-yellow clear liquid	/	/
	Viscosity (25 ° C)	10-30	mPa.s	GB/T 22314-2008
Mixing Properties Parameters				
Mixing Proportion (Mass Ratio)		9824A:9824B=100:26	/	/
Mixed Viscosity, 25 ° C		300-500	mPa.s	GB/T 22314-2008
Operational Time, 100g/25 ° C		≥240	min	/
Gel Time, 1.5g/100 ° C		10-14	min	/
Casting Properties				
Tensile Strength		75-80	MPa	GB/T 2567-2008
Percentage of Breaking Elongation		5.0-6.5	%	GB/T 2567-2008

Tensile Modulus	2.7-2.9	GPa	GB/T 2567-2008
Bending Strength	≥ 120	MPa	GB/T 2567-2008
Compressive Strength	≥ 105	MPa	GB/T 2567-2008
Glass Transition Temperature T _g	115-120	° C	GB/T 19466.2-2004

Note:

1. Recommended curing conditions are 80° C/1h+120° C/4h. The curing speed in summer will be faster than in winter.

2. The curing system is used as a reference and can be adjusted according to the actual heating equipment and efficiency, and the cooling process needs to be slow.

Precautions

9824A epoxy resin is packaged in iron barrels, and 9824B curing agent is packaged in plastic barrels, or supplied in other agreed forms.

Both epoxy resin and curing agent need to be stored in a ventilated, dry, and cool place, away from high-temperature fire sources, and away from sunlight. The shelf life of the resin is 1 year, and the shelf life of the curing agent is 1 year.

If the resin and curing agent are not used up, they should be sealed and stored immediately to avoid moisture absorption and deterioration.

The resin and curing agent need to be fully mixed and evenly mixed, and the curing process should be carried out in strict accordance with the process to ensure the final quality of the product.

Resin and curing agent are non-dangerous goods and can be disposed of as normal items.

This product is strictly prohibited to be swallowed, and labor protection equipment must be worn during operation. If it contaminates the skin, rinse it immediately with warm water and soap or clean it with organic solvents such as ethanol and acetone.

When processing, using, and disposing of this product, the relevant safety and health laws and regulations of the country and region should be observed.

Disclaimer

The above technical data are obtained by testing under specific conditions. These data can be used as a reference for users. Before using this product,



please conduct corresponding testing and evaluation to ensure suitability. We cannot guarantee for various special circumstances.