SDF1210A/83-8B Epoxy Resin Technical datasheet



Description & Application

Typical cured properties

SDF1210A/83-8B is a solvent-free liquid epoxy resin and curing agent. It can be cured at room temperature or under the customer's own conditions. After curing, the surface has excellent color and high temperature resistance (120-130 °C) without cracking. This product is suitable for high temperature bonding and potting of ceramics, golf clubs, Electric motor, high power transformers, snowboards, and quartz. And suitable for for carbon fiber and glass fiber winding, pultrusion, lamination, prepreg process forming composite products. It has the characteristics of waterproof and UV protection.

Product data		SDF1210A	SDF83-8B	Mixed		
	Appearance	Transparent	light yellow			
	Specific gravity	1.16	0.99			
	Viscosity at 25°C (Pa.s)	20.000-30.000	6.000-8.000			
	Mixing Ratio (weight)	100	100			
	Pot life at 25°C (100gr)			30min		
	Curing Conditions (2gr)			4-6h at 25°C		
Processing	Working environment strictly according to th inner wall of the conta According to the ope When the temperatur then adjust the rubbe must seal the lid to av	Working environment: Please keep the plastic container clean. A, B components are strictly according to the weight ratio, accurately weighed, and stir it evenly along the inner wall of the container clockwise until it is used for 3-5 minutes. According to the operating time and amount of glue deployment, to avoid waste. When the temperature is lower than 15 °C, please pre-heat the A glue to 30 °C and then adjust the rubber, easy to operate (low temperature, A glue will thicken); After use must seal the lid, to avoid the product due to moisture absorption scrapped				

When the relative humidity is more than 85%, the surface of the cured product can easily absorb the moisture in the air to form a white mist. Therefore, when the relative humidity is more than 85%, it is not suitable for room temperature curing. It is recommended to use the heating and curing.

The lid must be sealed after use to avoid the product being scrapped due to moisture absorption.

Hardness	Shore D	80
Withstand voltage	KV/mm	22
Tensile strength	Kg/mm2	≥25
Volume resistance	Ohm3	1x10*15
Surface resistance	Ohmm2	5x10*15
Long-term temp resistance	$^{\circ}\!\mathcal{C}$	120-130
Temperature resistance range	$^{\circ}\!\mathcal{C}$	220-230
Shrinkage	%	<0.5
Compressive strength	Ka/mm2	11.3

The above performance data are typical data measured in a laboratory environment with a temperature of 25 ° C and a humidity of 70%, and are for customer reference only.

Recommended Surfaces	Metal Al, Mg, Stainless Steel, CRS		RS	
	Plastic	ABS, PC, PVC, Acrylics		
	FRP VE, DCPD modified Polyester, Epoxy			
Lap Shear Strength	ABS (SF)	6.2 mPa	ASTM D 1002 23°C	
	PCc (SF, CF)	10.1 mPa	ASTM D 1002 23°C	
	Aluminum 6061d (CF)	21.5 mPa	ASTM D 1002 23°C	
	Aluminum 6061d (CF)	9.8 mPa	ASTM D 1002 82°C	
	Aluminum I 6061d (CF)	86.7 N/10mm	ASTM D 1876 23℃	
Chemical resistance	Hydrocarbons Acids and bases (3-10 pH) Saline solutions are not resistant to: Polar solvents Strong acids and bases			
Cleaning	Wipe surface with solvent to cle In the range of 1-35°C, manual a and the needle and the substrat	an all heavy oils, or use indus and pneumatic glue guns ca te are at a 45° angle.	strial cleaning equipment. n be used for dispensing,	

For uncured products, alcohol cleaning can be used. Once the product is cured, it can only be removed by mechanical cleaning.

Storage

Store this product in a cool, dry, ventilated environment away from heat sources. Optimum storage temperature is 10 °C and 32 °C. Do not return unused product to original container.