

SDF168AB-3 Epoxy Resin

Technical datasheet



Description & Application

SDF168AB-3 is a special epoxy compound for winding molding / resin transfer molding (RTM) process, including modified epoxy resin and modified curing agent. The product of this system has high purity, moderate mixing viscosity, simple molding process, excellent electrical performance, and high mechanical strength after curing, so it is particularly suitable for the manufacture of wound molded insulating tubes, insulating rods and other products. After proper adjustment, the system can also be used in casting and other processes to maintain the original excellent performance after curing.

Product data

	Epoxy resin 168A-3	Harder 168B-3	Mixed Adhesive
Appearance	<i>Transparent Black</i>	<i>Transparent</i>	
Specific gravity	<i>1.05-1.15</i>	<i>1.05</i>	
Viscosity at 25°C (Pa.s)	<i>2000-3000</i>	<i>50-80</i>	
Mixing Ratio (weight)	<i>100</i>	<i>80</i>	
Pot life at 25°C (100gr)			<i>3 days</i>
Curing Conditions			<i>2-4h at 75°C and 4-6h at 105°C or 6-8h at 100°C</i>

Processing

1. Adhesive products need to be kept dry and clean; the workplace needs to be ventilated;
2. Please check Agent A before use, observe whether there is sedimentation, and stir Agent A well;
3. The amount is taken according to the proportion and the weighing is accurate. Please remember that the proportion is the weight ratio rather than the volume ratio. After the A and B agents are mixed, they must be stirred well to avoid incomplete curing;
4. First heat the resin to 40 °C (in winter)
5. Weigh accurately according to the ratio, stir evenly and stand still without bubbles.
6. Add the mixed liquid to the glue tank, keep the glue tank temperature above 20 °C for extrusion.
7. Very few people will have mild skin allergies and mild itching during prolonged contact with glue. It is recommended to wear protective gloves when using it. Please wipe it off with acetone or alcohol and clean it with a detergent;
8. Before using it in large quantities, please try it in a small amount to master the use skills of the product to avoid mistakes.

Typical cured properties

Impact strength	<i>KJ/m</i>	<i>1.69</i>
Fracture toughness	<i>N/m</i>	<i>142</i>
Modulus of elasticity	<i>3600MPa HDT</i>	<i>95 °C</i>
Compressive strength	<i>Kg/mm²</i>	<i>32</i>
Bending strength	<i>Kg/mm²</i>	<i>15</i>
Tensile strength	<i>Kg/mm²</i>	<i>21</i>
Impact strength	<i>Kg/mm²</i>	<i>12</i>
Dielectric constant	<i>1KHZ</i>	<i>3.8-4.2</i>
Hardness	<i>Shore D</i>	<i>90-92</i>
Heat resistance temperature	<i>°C</i>	<i>150</i>
TG temperature	<i>°C</i>	<i>120</i>
Withstand voltage	<i>Kv/mm</i>	<i>>20</i>

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.