

Hand-Lay Up Epoxy Resin System

SWANCOR 2503-A/BS is designed for the process of hand lay-up which is composed of particular epoxy resin and hardener. It's main characters are as follows:

- ✓ Superior Tg
- ✓ Short pot life
- ✓ Proper viscosity
- ✓ Excellent mechanical property
- ✓ Good wetting out property to both glass fiber and carbon fiber

Typical Properties of Liquid Resin

Items	SW2503-A	SW2503-BS
Appearance	Light	Light Green
Viscosity (25°C/77°F, cps)	1,100~1,500	10~30
Density (25°C/77°F, g/cm ³)	1.1~1.2	0.9~1.0
A/B Ratio(weight)	100:25	
Initial Mix Viscosity (25°C/77°F, cps)	400~600	
Exothermic Peak Time (30°C/86°F, 100g, min)	140~200	
Shelf-Life (month)	24	

Typical property of 3.2mm clear casting

Items	SW2503-A/BS	Test Method
Tensile Strength (Mpa)	75~95	ASTM D638
Tensile Modulus (GPa)	3,000~3,900	ASTM D638
Elongation of Break (%)	>4%	ASTM D638
Flexural Strength (Mpa)	130~160	ASTM D790
Flexural Modulus (GPa)	3,200~4,000	ASTM D790
Tg (°C/°F)	100~110/212~230	DSC test, 10°C/50°F, min
HDT (°C/°F)	95~110/203~230	ASTM D648

*Curing condition: 4 hours at room temperature at 28°C/82°F + 8 hours at 80°C/176°F.