

SWANCOR 2502 A/B

SCRIMP epoxy resin system specially suitable for wind blades Tooling



SWANCOR 2502 A/B is designed for the process of vacuum infusion (SCRIMP or RTM) which is composed of particular epoxy resin and hardener. That is especially suitable for wind blade tooling manufacturer's use. Their main characters are low viscosity, optimal pot life, high HDT, superior immersed effect at glass fiber and carbon fiber.

Resin in liquid properties

Items	SWANCOR 2502 A	SWANCOR 2502 B	Standard or Method
Appearance	Light	Light Green	In Sight
Viscosity (cps,25°C/77°F)	700~1000	10~50	LVT # 3/# 2-60rpm
Density (g/cm ³ ,25°C/77°F)	1.1~1.2	0.9~1.0	
Flash Point (°C)	> 150	> 120	
A/B ratio (weight)	100: 25		
Initial Mix viscosity (25°C / 77°F)	250~380	LVT # 2--60rpm	
Exothermic peak time (mins, 25°C · 60%RH /100g)	110~180		
Shelf Life	12 months		

Mechanical properties of condensate of epoxy resin

Items	SWANCOR 2502 A/B	Standard or Method
Tensile Strength (Mpa)	67~90	ASTM D 638 or ISO 527
Tensile Modulus (Mpa)	2800~3700	ASTM D 638 or ISO 527
Elongation of Break (%)	>4	ASTM D 638 or ISO 527
Flexural Strength (Mpa)	125~160	ASTM D 790 or ISO 178
Flexural Modulus (Mpa)	2800~3800	ASTM D 790 or ISO 178
Tg (°C)	95~110	DSC 10°C/min
HDT (°C)	90~110	ASTM D 648 or ISO 75-2

*Curing Process = Room Temperature(28°C)24hrs + Post curing at 80°C for 8hrs

The data presented herein are believed to be accurate and reliable. We require customers to inspect and test our product before use and to satisfy themselves as to contents and suitability for their specific applications. Information herein is to assist customers in determining whether our products are suitable for their applications but not to be taken as a guarantee, express warranty or implied warranty of merchantability or fitness for particular purpose, nor is any protection form any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is limited to replacement of our material and in no event shall we be liable for special, incidental or consequential damages.

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Packing , Storage and Handling precaution

1. SWANCOR 2502 A packed in 265 gallon barrel, weight 1000kg, and packed in 55 gallon barrel, weight 200kg per barrel or packed in 5gallon barrel, weight 20kg per barrel.
2. SWANCOR 2502 B packed in 265 gallon barrel, weight 900kg, and packed in 55 gallon barrel, weight 180kg per barrel or packed in 2.5 gallon barrel, weight 3.0kg per barrel.
3. The epoxy and hardener have to well mix by regular proportion for use.
4. After epoxy and hardener are mixed, it should be used in valid period, in case it gels and can't be use.
5. All implement for daubing and stowing should be cleansed right after used.
6. Under construction duration, should avoid skin contact, wear protective cloth and glove if necessary.
7. Crystallization will not occur above 15°C(59°F), if encounter, it can be undone by careful heating.

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Page: 2/2

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SWANCOR INDUSTRIAL CO., LTD.

No. 9 Industrial South 6 Road, 54066 Nantou City, Taiwan.

Tel: +886 49 2255420 Fax: +886 49

E-mail: swancor@swancor.com

www.swancor.com
