

Product Description

SWANCOR 902 is a BPA-type vinyl ester resin with styrene-free. In addition to its good mechanical properties and processing characteristics, it also reduces the health damage caused by volatile gases to workers. It is suitable for manufacturing tanks, fittings and various composites. **SWANCOR 902** is applied using hand lay-up, pultrusion process and winding molding process.

Resin Properties

| Property | SWANCOR 902 |
|-------------------------------|-----------------------|
| Appearance | Brown clear liquid |
| Solid content (%) | 55 ± 1 |
| Viscosity (cps) ^{*1} | 700 ± 150 |
| Gel time (min) | 15 ~ 50 ^{*2} |
| Shelf life (month, at 25 °C) | 6 (25°C) |

^{*1} LVT#3-60rpm@25°C

^{*2} 55% MEKPO: 1.2%, 6% cobalt octanoate: 0.4%, 100% DMA: 0.05%, Temp.: 25°C

The properties of casting plate (3.2mm/pure resin) ^{*3}

| Property | value | Test method |
|-------------------------|-----------|----------------------|
| Tensile Strength (MPa) | 70~90 | (ASTM D 638) |
| Tensile Modulus (MPa) | 3100~3500 | (ASTM D 638) |
| Flexural Strength (MPa) | 115~150 | (ASTM D 790) |
| Flexural Modulus (MPa) | 3000~3600 | (ASTM D 790) |
| Tensile Elongation (%) | 2.5~5.0 | (ASTM D 638) |
| HDT (°C) | 100~110 | (ASTM D 648) |
| Hardness(Barcols) | 35~45 | (Barcol ASTM D 2583) |

^{*3} Curing condition: Molding at room temp. for 24 hrs + post cured at 105°C for 2 hrs.

packaging , storage , operation

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. SWANCOR HIGHPOLYMER CO., LTD. reserves all rights related to intellectual property rights.

1. **SWANCOR 902** is packed in 55-gallon drums weighing 200kg and packed in 5-gallon drums weighing 20kg.
2. Store in a cool place and away from direct sunlight.
3. Flammable liquids › Keep away from ignition source.

Other instructions

1. The shelf life of **SWANCOR 902** is 6 months.
2. **SWANCOR 902** is a reactive resin. If the storage is too long, open the bottle cap and air to extend the storage time.
3. The gel time of **SWANCOR 902** is mainly affected by accelerator content, hardener concentration ; Due to the difference of hardeners, humidity, pigment fillers and other additives all affect the hardening properties ; Therefore, it is recommended to use this product, the best operator and then set their own operating conditions, and test hardening properties first with a small amount of usage.

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