

SWANCOR RH510 is a tough, low viscosity, recyclable radical-cured resin with high performance. It is designed for hand lay-up application with suitable reinforcements. An advantage of using SWANCOR RH510 was that the same resin could be used throughout the construction, because of its non-formaldehyde release. High filling this resin with ATH achieves a very high level of flame(F), smoke(S) and toxic(T) performance (EN45545-2 R1 HL2). Composite material formed by SWANCOR RH510 could be degraded by CleaVER with suggested process in high efficiency.

Typical properties of liquid resins

Appearance	Clear amber liquid
Solid content	51.5-55.5 %
Viscosity*1	35-50 cps
Specific Gravity	1.06-1.10
Gel time*2	20-30 min
Shelf Life (months)	6(25°C)

*1 LVT#61-60rpm , 25°C

*2 50%BPO : 1.0% , 100%DMA:0.2% , 25°C

Typical clear casting properties of cured resin(3.2mm)*3

Tensile Strength	65-85 MPa	ASTM D 638
Tensile Modulus	3.3-3.8 GPa	ASTM D 638
Tensile Elongation	2.0-4.0 %	ASTM D 638
Flexural Strength	138-160 MPa	ASTM D 790
Flexural Modulus	3.4-4.0 GPa	ASTM D 790

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 from 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.

Heat Distortion Temperature(°C)	108-118	ASTM D 648
Barcol Hardness	45-55	ASTM D 2583

*3 Cured condition: 24 hours at room temperature then 2 hours at 105°C; Typical values: Based on material tested in laboratories, but variable from sample to sample. Typical values should not be constructed as guaranteed analysis of any specific lot or as specification items.

SWANCOR RH510/ATH for hand lay-up^{*4}

Formulation	RH510(phr)	BYK-W 996(phr)	SG10 LSA(phr)	Viscosity ^{*5} (cps)
	100	2	160	400-700
Temperature	Materials/gel time		40-60min	Barcol ^{*6}
25 °C	6%Co M402		0.20% 1.00%	>25

*4 According to different ATH, the gel time should be some different.

*5 LVT#63-60rpm , 25°C.

*6 2 layers of 450g/m² CSM was used for 4hr at 25°C.

Notice in use

1. The gel time of SWANCOR RH510 is affected primarily by catalyst concentration and temperature. The variations of cure characteristics may be caused by the variations of catalyst, humidity, pigment, fillers and other additives. It is recommended that the fabricators check the cure characteristics with a small quantity resin before proceeding for bulk production.
2. SWANCOR RH510 is a potentially reactive chemical. Please store in dark and keep away from heat and direct sunshine.
3. Containers, not completely emptied must be closed immediately after use.

Resin Storage

Keep away from ignition source; flame, pilot light, electrical sparks, and sparking tools. Do not store in direct sunlight. NO SMOKING. Do not store in direct sunlight. Store separate from oxidizing materials, peroxides, and metal salts. Keep container closed when not in use.

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SWANCOR RH510

Radical-cured Resin



上緯綠金能股份有限公司
SWANCOR REGENER CO., LTD.

To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperature below 25°C. Copper or copper containing alloys should be avoided as containers.

Package

Standard packing is 200 Kg steel drum.

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