

SWANCOR RH520 is a tough, low viscosity, non-yellowing, 1K type, recyclable radical-cured resin with high transparency. It could be fully-curing under exposure in LED UV(365/395nm=1/1) for 15 J/cm². Composite material formed by SWANCOR RH520 could be degraded by CleaVER with suggested process in high efficiency.

Typical properties of liquid resins

Appearance	Light yellow liquid
Solid content	69-73 %
Viscosity* ¹	150-300 cps
Shelf Life (months)	6(25°C)

*¹ LVT#62-60rpm , 25°C

Typical clear casting properties of cured resin(3.2mm)*²

Tensile Strength	70-90 MPa	ASTM D 638
Tensile Modulus	2.8-3.6 GPa	ASTM D 638
Tensile Elongation	5.0-10.0 %	ASTM D 638
Flexural Strength	110-150 MPa	ASTM D 790
Flexural Modulus	2.8-3.6 GPa	ASTM D 790
HDT(°C)	80-90	ASTM D 648
Barcol Hardness	35-45	ASTM D 2583
Tg	95-105	DSC ; 10°C /min

*² Cured condition: 6%Co:0.4%/M402:1.0% ; 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.

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.

SWANCOR RH520

Radical-cured Resin



Notice in use

1. The reactivity of SWANCOR RH520 is affected primarily by exposure energy. The variations of cure characteristics may be caused by the variations of 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 RH520 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. 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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