SWANCOR RH512-LEP

Radical-cured Resin

上緯綠金能股份有限公司
SWANCOR REGENER CO., LTD.

SWANCOR RH512-LEP is a tough, low viscosity, recyclable radical-cured resin with a low exothermic peak development during curing process. It is designed for closed mould applications, including vacuum infusion and RTM with suitable reinforcements at room temperature. Composite material infused by SWANCOR RH512-LEP could be degraded by CleaVER with suggested process in high efficiency.

Typical properties of liquid resins

Appearance	Cloudy amber liquid
Solid content	57-61 %
Viscosity*1	170-230 cps
Specific Gravity	1.05-1.08
Gel time*2	60-100 min
Shelf Life (months)	6(25℃)

*1 LVT#62-60rpm，25℃

*2 6%Co：0.2%，M-102：1.0%，25℃

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

Tensile Strength	75-95 MPa	ASTM D 638
Tensile Modulus	3.0-3.8 GPa	ASTM D 638
Tensile Elongation	3.0-8.0 %	ASTM D 638
Flexural Strength	135-165 MPa	ASTM D 790
Flexural Modulus	3.0-3.8 GPa	ASTM D 790
HDT(°C)	100-105	ASTM D 648

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Barcol Hardness	35-45	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.

Typical gel time of SWANCOR RH512-LEP (60-100min)

Temp(℃)	6%Co	CUROU®M-102
20	0.60%	1.5%
25	0.20%	1.0%
30	0.10%	1.0%
35	0.05%	1.0%

Notice in use

1. The gel time of SWANCOR RH512-LEP 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 RH512-LEP 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

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in closed containers at temperature below 25℃. Copper or copper containing alloys should be avoided as containers.

Package

Standard packing is 200 Kg steel drum.

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