



SHS

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SH 8000

1.General Description

SH 8000 is Vinyl Ester Resin , and suitable for making quick curing type for filament winding , hand lay-up and spray up moulding. And also this resin have the good property for anti-corrosion , chemical resistance tank ,pipe and fitting...etc. Especially recommended for Chemical Engineering , due to excellent performance on strength properties. But this resin is not suitable for clear transparent casting purpose is not recommended.

A) Properties of liquid SH 8000

TEST ITEMS	TEST METHOD	
Appearance	JIS K 6901	Viscosity Liquid
Viscosity(Ps/30°C)	JIS K 6901	4 - 5
Specific Gravity(30°C)	JIS K 6901	1.048
Gel Time(minute/30°C)	JIS K 6901	15 -25
Monomer Content(%)	ISO 3252 - 1974	45 ± 2
Mineral Content(%)	DIN 1645 - 1976	Max. 0.05
Linear Curing Shrinkage(%)	ASTM D 2566-69	1.9 ~ 2.1

B) Properties of cured SH 8000

PROPERTY	TEST METHOD	
Density	ASTM C905-01	1.033g/cm ³
Barcol Hardness	ASTM D2583-07	39BHC
Heat Distortion Temperature	ASTM D648	103 degree C
Glass Transition Temperature	ASTM E1356-03	106 degree C
Water Absorption	ISO/R 62-1980	Max. 80mg
Elongation	ASTM D638	5-6 %
Tensile Strength	ASTM D638	75 Mpa
Tensile Modulus	ASTM D638	3.49 Gpa
Flexural Strength	ASTM D790	135 Mpa
Flexural Modulus	ASTM D790	3.09 Gpa

2. Curing table

Temperature (°C)	Curing agent (% v/w)	0.5% (Co-Nc-6%)	Gel time (min)	Curing time(min)
25	2.0	0.5	15-20	30-45
30	1.5	0.5	15-20	30-45
35	1.5	0.5	15-20	30-45

*Curing agent : Akperox A-50

*Usage instruction:

- a) Add in Co & DMA mix and stir thoroughly
- b) Next, add in the curing agent , stir and mix well

*Remarks

- a) Please take note that if curing agent and Co are added at the same time or come into contact with each other, there is a danger of fire and explosion.
- b) Pot gel time as stated above is a guideline, it is not a guarantee. Before use, please check the pot gel time.

3. Packing

*200kg/drum

*Packed in the steel drum of standard size

4. Shelf life

After production, will expire 6 months later.

Remark:

The temperature of your warehouse must keep less than 25°C

5. Safekeeping

*Set SH8000 away from ignition sources (flame, fire, sparks, any)

*No smoking in the warehouse and also storage area

*keep SH8000 out of the sun

*SH8000 must separate from hardener and oxidizing materials, promoter regarding storage area

*Care high humidity in the warehouse

*Due to keep the quality and same properties of SH8000, it must be stocked less than 25°C in your warehouse

*Due to keep the temperature and also air circulation in your whole warehouse, please install a ventilator and a fan inside of top roof

*Please keep and follow our safety data sheet

Note:

*All data is just technical data and also don't be guaranteed curing resin and laminated product by SH8000

*if necessary to be any other information, please contact our PIC of your own country