

SHCP 2668 CM-M

POLYESTER RESIN FOR SHEET LAMINATING

Singapore Highpolymer
Chemical Products Pte Ltd



Applications

SHCP 2668 CM-M is a special formulated resin exclusively design for sheet lamination application. Such as roofing sheets, green house and etc.... SHCP 2668 CM-M is non-thixotropic, clear appearance and promoted. SHCP 2668 CM-M exhibits good impregnated with fibreglass to show an excellent effect of transparency on the products.

Specifications

Liquid SHCP 2668 CM-M polyester resin has the following characteristics:

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| • Appearance | Clear |
| • Viscosity at 30°C | 6 – 8ps (Brookfield LVT viscometer, #2, 30rpm) |
| • Accelerator (6% Cobalt) | 0.5% |
| • Gel Time at 30°C | 8 – 12 minutes |
| • Cure Time at 30°C | 20 – 40 minutes |
| • Peak Exothermic Temperature | 130 – 140°C |

These are laboratory conditions at the end of batch production using 1% catalyst (Butanox M-50 MEKPO).

Properties

Pure Resin Casting of SHCP 2668 CM-M polyester resin

	Result	Test Method
Barcol Hardness	48 BHC	ASTM D2583-67
Heat Distortion Temperature	67.3°C	ASTM D648-72
Elongation at Break	3.2%	ASTM D638-72
Specific Gravity of Liquid Resin at 25°C	1.13kg/litre	ASTM D1475
Volume Shrinkage on Cure	9.0%	Specific Gravity
Flexural Strength	8.4 Kgf./mm ²	ASTM D790
Tensile Strength	3 Kgf/mm ²	ASTM D638
Impact Strength	3.9 Kgf-cm/ cm	ASTM D256



Usage

SHCP roofing sheet resin performs best when it is completely cured. To do so, a proper combination of catalyst and accelerator must be used at room temperature for a sufficient period of time. Generally, 1 percent of catalyst (BUTANOX M-50 MEKP) together with 0.5 percent of accelerator (6% cobalt content) is used for 2668 CM-M.

Storage

SHCP unsaturated polyester resin will remain stable for about 6 months from date of factory manufacturing provided resin is stored in the dark and not exposed to moisture and the recommended storage temperature should not exceed 25°C and the containers should not be opened until they are required for use. Their stability however deteriorates markedly at higher temperature especially when they are directly exposed to sunlight. It is advisable to finish it within three months.

However, owing to difficulties in presenting information applicable to all situations no warranty is expressed or implied and users are recommended to carry out their own test to determine the applicability of the above information and the suitability of SHCP resins for their particular requirements.

FRP Services reserves the right to change the information given herein without prior notice. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume liability for occurrence arising out of its use. The user, by accepting products described herein agrees to be responsible for thoroughly testing any application before committing to production.



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