NEOTECH COMPOSITE CO., LTD.

บริษัท นีโอเทค คอมโพสิท จำกัด

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TECHNICAL DATA SHEET

MP-001

Pre-accelerated Thixotropic Unsaturated Polyester Resin

| SPECIAL PROPERTIES AND USE | SPECIFICATION | |
|--|---|---------------------|
| High reactivity, low viscous pre-accelerated, thixotropic, non-wax type unsaturated polyester | Appearance | Pink, cloudy liquid |
| resin dissolved in styrene. | Acid Value (as mg. KOH/1g. Resin) | 15 - 25 |
| GENERAL PROPERTIES MP-001 is a high reactive unsaturated polyester resin exhebiting good hardness, toughness, and | Viscosity (mPa.s) (Brookfield, LVT, 25° C) | 250 - 450 |
| impact resistance The thixotropic of MP-001 will give anti-sag | Non-volatile (%) | 58 - 62 |
| when it is applied on vertical or leaned surfaces. | Gel time (Min.) (2%MEKPO-50, 25° C) | 9.00 - 13.00 |
| APPLICATIONS MP-001 is a general purpose unsaturated polyester resin developed for fiber glass reforce plastic (FRP) products such as containers, cooling tower, septic-tank, pipe, etc., for applying by hand lay-up and spray | Thixotropic Index (at 25° C) | 1.5 - 3.0 |
| | Flash Point (°C) (DIN 53213) | 34 |

PACKING AND STORAGE

molding.

Steel drum, net weights 225 kg.

STORAGE STABILITY

MP-001 must be kept away from sources of ignition and heat and not in direct sunlight. It is recommended the storage temperature should not excess $25^{\rm o}{\rm C}$

At 25°C (no access of air and light) storage stability is more than 6 months.

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The information given herein and otherwise supplied to users is based on our general experience and, where applicable, on the results of test on samples of typical manufacture, However, because of the many factors which are outside knowledge and control, which can effect the use of these products, users may rely on their own judgement and we cannot accept liability for any injury, loss or damage resulting from reliance upon such information

| PHYSICAL PROPERTIES of cured MP-001 | | | | |
|-------------------------------------|--------------------------|-----------------------|-------------|--|
| PROPERTY | VALUE | UNIT | TEST METHOD | |
| Specific gravity, 25°C | 1.12 | g/cm ³ | ASTM-D-792 | |
| Barcol Hardness | 30 | - | J-934-1 | |
| Elongation | 3 | % | ASTM-D-638 | |
| Flexural strength | 12 | kgf./mm ² | ASTM-D-790 | |
| Flexural modulus | 260 | kgf./mm ² | ASTM-D-790 | |
| Tensile strength | 6 | kgf./mm ² | ASTM-D-638 | |
| Tensile modulus | 218 | kgf./mm ² | ASTM-D-638 | |
| Compressive strength | 13.5 | kgf./mm ² | ASTM-D-695 | |
| Water absorbtion (24 hrs.) | 0.14 | % | ASTM-D-570 | |
| MECHANICAL PROPERTIES of M | P-001 fiber glass lamina | ate, with 30% chopped | strand mat | |
| PROPERTY | VALUE | UNIT | TEST METHOD | |
| Barcol Hardness | 45 | - | J-934-1 | |
| Elongation | 2.5 | % | ASTM-D-638 | |
| Flexural strength | 24 | kgf./mm ² | ASTM-D-790 | |
| Flexural modulus | 710 | kgf./mm ² | ASTM-D-790 | |
| Tensile strength | 12.5 | kgf./mm ² | ASTM-D-638 | |
| Tensile modulus | 440 | kgf./mm ² | ASTM-D-638 | |
| Water absorbtion (24 hrs.) | 0.16 | % | ASTM-D-570 | |

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