

NEOTECH COMPOSITE CO., LTD.

บริษัท นีโอบเทค คอมโพสิท จำกัด

139 Soi Pharyasuren 30, Bangchan, Klongsamwa, Bangkok 10510

139 ซอยพระยาสุเรนทร์ 30 แขวงบางชัน เขตคลองสามวา กรุงเทพฯ 10510 โทร. 02-5174955-6 แฟกซ์. 02-5174957

TECHNICAL DATA SHEET

POLESTER 7932 PT

Pre-accelerated Thixotropic, Non wax Unsaturated Polyester Resin

SPECIAL PROPERTIES AND USE

High reactivity, low viscous pre-accelerated thixotropic, non wax type unsaturated polyester resin dissolved in styrene

GENERAL PROPERTIES

Polester 7932 PT is a high reactive unsaturated polyester resin exhibiting good hardness, toughness, and impact resistance. The thixotropic of **Polester 7932 PT** will give anti-sag when it is applied on vertical or leaned surfaces.

APPLICATIONS

Polester 7932 PT is a general purpose unsaturated polyester resin developed for fiber glass reinforce plastic (FRP) products such as containers, cooling tower, septic tank, pipe, etc., for applying by hand lay-up and spray molding.

PACKING AND STORAGE

Steel drum, net weights 230 kg.

SPECIFICATION

| | |
|---------------------------------------------------|---------------------|
| Appearance | Pink, cloudy liquid |
| Acid Value (as mg. KOH/1g. Resin) | 25 - 30 |
| Viscosity (mPa.s) (Brookfield, LVT, 25° C) | 200 - 400 |
| Non-volatile (%) | 55 - 57 |
| Gel time (Min.) (2%MEKPO-50, 25° C) | 9.30 - 12.30 |
| Density (g/cm ³) (at 25° C) | 1.1 |
| Flash Point (° C) (DIN 53213) | 34 |

STORAGE STABILITY

Polester 7932 PT must be kept away from sources of ignition and heat and not in direct sunlight. It is recommended the storage temperature should not exceed 25°C

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

Ref : T-S-DT005

Revision : 01

Issue Date : April 09, 2015

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 Polester 7932 PT

| <u>PROPERTY</u> | <u>VALUE</u> | <u>UNIT</u> | <u>TEST METHOD</u> |
|------------------------|--------------|----------------------|-----------------------|
| Specific gravity, 25°C | 1.12 | g/cm ³ | DIN 53479 |
| Barcol Hardness | 48 | - | - |
| Elongation | 2.3 | % | DIN 53455 |
| Flexural strength | 85 | N/mm ² | DIN 53452 |
| Tensile strength | 54 | N/mm ² | DIN 53455 |
| Impact Strength | 4.0 | kgcm/cm ² | DIN 53453 |
| Water absorbtion | 0.2 | % | 7-day dipping at 20°C |

THERMAL PROPERTIES of cured Polester 7932 PT

| | | | |
|-----------------------------|------|------------|----------------|
| Thermol conductivity | 0.15 | kcal/kg °C | DIN 52612 |
| Heat distortion temperature | 65 | °C | ASTM D 648-45T |

MECHANICAL PROPERTIES of Polester 7932 PT fiber glass laminate, with 30 % chopped strand mat

| <u>PROPERTY</u> | <u>VALUE</u> | <u>UNIT</u> | <u>TEST METHOD</u> |
|-------------------|--------------|----------------------|--------------------|
| Tensile strength | 50 | N/mm ² | DIN 53455 |
| Flexural strength | 120 | N/mm ² | DIN 53452 |
| Impact Strength | 40.0 | kgcm/cm ² | DIN 53453 |
