

NEOTECH COMPOSITE CO., LTD.

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TECHNICAL DATA SHEET

POLESTER 7932 LV

Pre-accelerated Thixotropic Unsaturated Polyester Resin

SPECIAL PROPERTIES AND USE

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

GENERAL PROPERTIES

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

APPLICATIONS

Polester 7932 LV is a general purpose unsaturated polyester resin developed for fiber glass reinforce plastic (FRP) products such as containers, cooling tower, septictank, 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) | 21 - 25 |
| Viscosity (mPa.s) (Brookfield, LVT, 25° C) | 200 - 300 |
| Non-volatile (%) | 55 - 57 |
| Gel time (Min.) (2%MEKPO-50, 25° C) | 9.00 - 12.30 |
| Density (g/cm ³) (at 25° C) | 1.1 |
| Flash Point (° C) (DIN 53213) | 34 |

STORAGE STABILITY:

Polester 9321 LV 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°C

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

Ref : T-S-DT016

Revision : 01

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PHYSICAL PROPERTIES of cured **Polester 7932 LV**

| <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 | DIN53455 |
| Impact Strength | 4.0 | kpcm/cm ² | DIN53453 |
| Water absorbtion | 0.2 | %# | 7-day dipping at 20°C |

THERMAL PROPERTIES of cured **Polester 7932 LV**

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

MECHANICAL PROPERTIES of **Polester 9321 LV** fiber glass laminate, with 30 % chopped strand mat

| <u>PROPERTY</u> | <u>VALUE</u> | <u>UNIT</u> | <u>TEST METHOD</u> |
|-------------------|--------------|----------------------|--------------------|
| Tensile strength | 105 | N/mm ² | DIN 53455 |
| Flexural strength | 120 | N/mm ² | DIN 53452 |
| Impact Strength | 40.0 | kpcm/cm ² | DIN 53453 |
