



TECHNICAL DATA SHEET

POLESTER 7932 LV

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

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

APPLICATIONS

Polestar 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 ^o C)	200 - 300
Non-volatile (%)	55 - 57
Gel time (Min.) (2%MEKPO-50, 25 ^o C)	9.00 - 12.30
Density (g/cm ³) (at 25 ^o C)	1.1
Flash Point (^o C) (DIN 53213)	34

STORAGE STABILITY

Polestar 7932 LV 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^oC

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



PHYSICAL PROPERTIES of cured **Polestar 7932 LV**

<u>PROPERTY</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
Specific gravity, 25 ⁰ 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	kpcm/cm ²	DIN 53453
Water absorbtion	0.2	%	7-day dipping at 20 ⁰ 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 **Polestar 7932 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
