



TECHNICAL DATA SHEET

POLESTER 7314 PT

Pre-accelerated Thixotropic 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 7314 PT is a high reactive unsaturated polyester resin exhibiting good hardness, toughness, and impact resistance. The thixotropic of **Polester 7314 PT** will give anti-sag when it is applied on vertical or leaned surfaces.

APPLICATIONS

Polester 7314PT 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)	1 - 26
Viscosity (mPa.s) (Brookfield, LVT, 25° C)	300 - 600
Non-volatile (%)	55 -57
Gel time (Min.) (2%MEKPO-50, 25° C)	7.30 – 12.30
Thixotropic Index (at 25° C)	1.5 – 3.0
Flash Point (° C) (DIN 53213)	34

STORAGE STABILITY

Polester 7314 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.



PHYSICAL PROPERTIES of cured Polester 7314 PT

<u>PROPERTY</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
Specific gravity, 25°C	1.12	g/cm ³	ASTM-D-792
Barcol Hardness	40	-	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 Polester 7314 PT fiber glass laminate, with 30% chopped strand mat

<u>PROPERTY</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
Barcol Hardness	54	-	J-934-1
Elongation	2.5	%	ASTM-D-638
Flexural strength	24	kgf./mm ²	ASTM-D-638
Flexural modulus	710	kgf./mm ²	ASTM-D-638
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-638