



NEOTECH
Composites

Neotech composite co.,ltd

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TECHNICAL DATA SHEET

POLESTER GELCOAT 91

Thixotropic Non-accelerated Unsaturated Polyester Resin

SPECIAL PROPERTIES AND USE

Polester Gelcoat 91 is an ortho-phthalic non-accelerated high thixotropic unsaturated polyester resin with Styrene

GENERAL PROPERTIES

Polester Gelcoat 91 is a high reactivity unsaturated polyester resin develop for general purpose. It exhibits outstanding good hardness , toughness , impact and chemical resistance. The thixothopic permits the application of coats of up to 0.6 mm. thickness without sag on vertical or leaned surface

APPLICATIONS

Polester Gelcoat 91 is desighed for manufacture of containers , pipe , boat , bath-tub auto parts and etc. **Polester Gelcoat 91** can be applied by brush , roller or spay gun with a dilution form.

PACKING AND STORAGE

In drum, net weights 25 and 50 kg.

SPECIFICATION

Appearance	Cloudy paste
Viscosity (CPs.) (Brookfield, at 25° C)	10,000 - 30,000
Non-volatile (%)	66 min.
Gel time (Min.) (1%Co-1, 2%MEKPO-50, 25° C)	4:00 - 7:00
Density (g/cm ³) (at 25° C)	1.09 - 1.11
Flash Point (° C) (DIN 53213)	34

STORAGE STABILITY

Polester Gelcoat 91 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.

PHYSICAL PROPERTIES of cured **Polester Gelcoat 91**

<u>PROPERTY</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
Specific gravity, 25°C	1.10	g/cm ³	DIN 53479
Barcol Hardness	48	-	J-934-1
Elongation	3	%	DIN 53455
Flexural strength	85	N/mm ²	DIN 53452
Tensile strength	40	N/mm ²	DIN 53455
Impact Strength	5.0	kpcm/cm ²	DIN 53453
Water absorbtion	0.3	%	5-day dipping

THERMAL PROPERTIES of cured **Polester Gelcoat 91**

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

MECHANICAL PROPERTIES of **Polester Gelcoat 91** fiber glass laminate, with 30% chopped strand mat

<u>PROPERTY</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
Flexural strength	140	N/mm ²	DIN 53452
Tensile strength	90	N/mm ²	DIN 53455
Impact Strength	40.0	kpcm/cm ²	DIN 53453

