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TECHNICAL DATA SHEET

POLESTER GELCOAT 91
Thixotropic Non-accelerated Unsaturated
Polyester Resin

GENERAL PROPERTIES

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

SPECIAL PROPERTIES AND USE

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

APPLICATIONS

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

PACKING AND STORAGE

In drum, 25 and 50 kg.

SPECIFICATIONS

Appearance	cloudy paste
Viscosity (Ps.) (Brookfield, at 25°C.)	200 - 400
Non-volatile (%)	68 - 70
Gel time (Min.) (1% Co-1, 2% MEKP-50, 25°C)	12 - 16
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 exceed 25°C.

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

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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 judgment and we cannot accept liability for any injury, loss or damage resulting from reliance upon such information.

PHYSICAL PROPERTIES of cured **Polester Gelcoat 91**

<u>PROPERTY</u>	<u>VALUE</u>	<u>UNIT</u>	<u>TEST METHOD</u>
Specific gravity, 25°C	1.1	g/cm ³	DIN 53479
Barcol Hardness	48	-	J-934-1
Elongation	3.0	%	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 absorption	0.3	%	5-day dipping

THERMAL PROPERTIES of cured **Polester Gelcoat 91**

Thermal 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>
Tensile strength	90	N/mm ²	DIN 53455
Flexural strength	140	N/mm ²	DIN 53452
Impact strength	40	kpcm/cm ²	DIN 53453

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