FARAPOL T 508

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Product Description	Farapol T 508 is a Terephthalic acid-based unsaturated polyester resin dissolved in styrene, non-accelerated and non-thixotropic. It has a medium viscosity, medium reactivity, good impregnation of glass fiber and good process abilities.
Applications and Use	This resin is designed for manufacturing of decorative items, sheets, architectural panels, filled resin objects, roofing sheet resin and junctions.
Certificates and Approvals	Farapol T 508 is synthesized from raw materials listed in FDA regulation Title 21 CFR 177.2420. Farapol Jam Chemical Industrial Company carries out the production, quality control, and distribution of this resin in compliance with ISO 9001, 14001, 45001, 10002, 10004, 10015, and 17065 standards.

Typical Liquid Resin Properties

Property @ 25 ºC	Unit	Specification	Method
Viscosity Brookfield[1]	cps	320 - 350	ISO 2555
Acid Value	mgKOH/g	Max 20	ASTM D 1639
Solid Content	%	60 - 62	ISO 3251
Color	Gardner	Max 3	ASTM D 1544
Specific Gravity	relative	1.11-1.13	ISO 2811
Gel Time[1]	minute	16 - 18	ASTM D 2471
Exothermic Peak Temperature	ºC	140-180	ASTM D 2471

1) Gel Time and Viscosity can be adjusted as per customer requirements.

Gel Time Behavior of Resin[2]

Temperature (ºC)	18	25	30
Gel Time (minute)	25-28	16-18	13-15

2) Mix ratio for measuring Gel Time: (Cobalt Octoate Farapol C 901 1%- 1.0 phr, Akperox A60 1.0 phr).
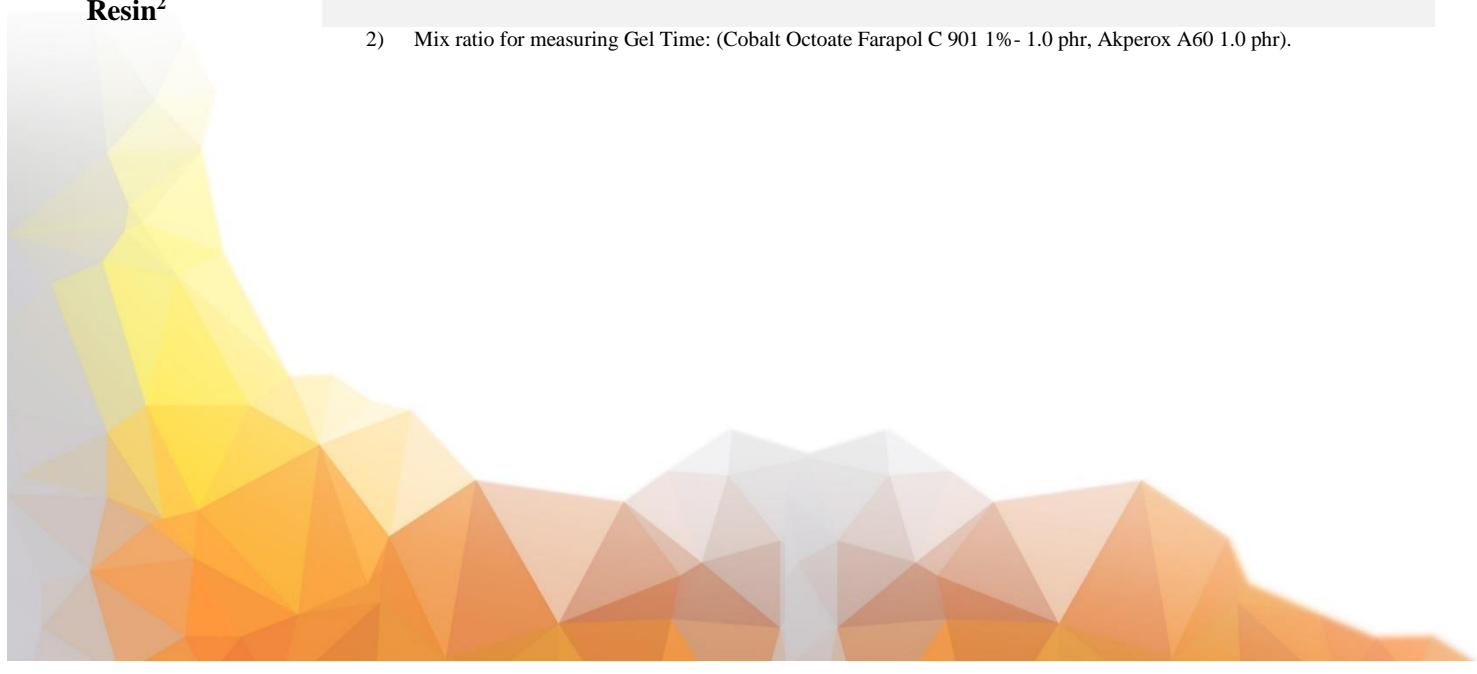
Typical Casted Resin Properties[3]	Property	Unit	Specification	Method
	Tensile Strength	MPa	Min 65	ISO 3268, ASTM D638, ISO 527-2&4
	Elongation at Break	%	Min 3.0	ISO 3268, ASTM D638, ISO 527-2&4
	Tensile Modulus	GPa	Min 2.8	ISO 3268, ASTM D638, ISO 527-2&4
	Flexural Strength	MPa	Min 110	ISO 178/ASTM D 790
	Flexural Modulus	GPa	Min 3.2	ISO 178/ASTM D 790
	Heat Deflection Temperature (HDT)	^{0}C	Min 65	ISO 75-2 Test Method A
	Barcol Hardness	Barcol	Min 30	ASTM D 2583
	Water Absorption	%	≈ 0.40	ISO 62- Test Method 3
	Linear Shrinkage[4]	%	≈ 1.8	Internal method

3) Materials used for curing are: (Cobalt Octoate Farapol C 901 1% - 1.0 phr, Akperox A60 1.0 phr). Curing Time is 24 hrs at Room Temperature and 3 hrs at 80 ℃.
4) This test has been done on the specimen with linear dimensions (1 cm × 1 cm × 100 cm).

Handling, Storage and Stability

FARAPOL T 508 is a product that is sensitive to temperature, light, and oxidation. Hence, it should be stored indoors in a dry place at a temperature between 5 and 25°C. Keep always in the original, unopened, and undamaged containers. Avoid keeping material exposed to sunlight. On storage under the conditions mentioned above, the shelf life for FARAPOL T 508 is 6 months**.**

Healthy and Safety

Avoid storing the resin along with Metallic Driers and Peroxides in the same area. Safety Datasheets of the product are available on demand. The user is fully responsible for reviewing the material's Safety Data Sheet (SDS) and understanding proper handling procedures prior to using the product..

Packaging

Farapol T 508 is supplied in 200 Kg steel barrels, IBC and bulk road tankers.

Notice

The information contained herein is provided in good faith and is with the best of our accurate knowledge, but we assume no liability for its accuracy or completeness. Therefore, the buyer is advised to determine the suitability of this product for the intended use. We retain the right to make any changes according to technological progress or further developments.
Please note that testing conditions may vary between different laboratories, and a tolerance of up to 5% should be expected in the test report.
Farapol Jam Company reserves the right to modify the information in this document at its discretion. The latest version available on the Farapol website is considered valid, and any previous versions are void.

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