

Applications:

- Flame-retardant FRP applications
- Chemical plant and corrosion resistant structures (acid storage tanks, road transportation tankers, pipelines, scrubbers, etc.)
- Building construction and infrastructure (roofing sheets, doors, water tanks, partitions, domes, furniture)
- Marine vessels and structures

Properties:

- Flame-retardant base polymer
- Corrosion resistant
- Excellent fiberglass wet out
- Low Shrinkage Flame-retardant resin

Composition Of The Resin:

Farapol Brominated Flame Retardant Vinyl Ester Resin is ideal for a variety of general-purpose flame-retardant FRP applications. This halogenated VE resin is used to handle flammable liquids and mixtures of hot gases in FRP ducts, grating, scrubbers and stacks. It can be used in open and closed molding processes.

Compatibility:

Avoid storing the resin along with Metallic Driers and Peroxides in the same area.

Safety:

Material Safety Datasheets of the product is available on demand.

Product Data¹:

- Viscosity Brookfield(cps, @25°C) 400-450
- Acid Value (mgrKOH/gr Resin) <5
- Color(Gardner) 2
- Solid Content(%) 60±2
- Gel Time(minute, @25°C) 20-30
- Peak Temperature(°C, @25°C) 130-150

Storage Conditions:

Farapol Brominated Flame Retardant Vinyl Ester resin is a product sensitive to temperature, light & oxidation. Hence should be stored indoors in 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.

Stability:

On storage under above mentioned conditions, the stability for Farapol Flame Retardant Resin is 6 months.

Supply Modes:

This Resin is Supplied in 200 Kg net Steel Barrels and Bulk Road Tankers.

¹ Gel Time, Acid Value, and Viscosity can be adjusted as per customer requirements.

Category according Flame Test Result on Clear Cast Mold:

Row	Test Method	Standard	Result- Class
1	Horizontal	UL 94/ ASTM D 635	Class-0
2	Vertical	UL 94/ ASTM D 5048	V-0

Class-0 in Horizontal Category means did not ignite after removed flame source.

Materials used for curing are: (Cobalt Octoate Farapol C 901 1%- 1.5 phr, 0.3 phr of DMA 10% & Akperox A60 1.0phr). Curing time is 24 Hrs at room Temperature, 2 Hrs at 80°C & 1 Hrs at 120°C.

Mechanical Properties of Clear Cured Castings:

PROPERTIES	TEST VALUE	METHOD
Tensile Strength (MPa)	70	ISO 527-2
Elongation at Break (%)	2.8	ISO 527-2
Heat Distortion Temperature (°C)	98	ISO 75-2
Flexural Strength (MPa)	96	ISO 178
Barcol Hardness	40	ASTM D2583

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Water Absorption & Linear Shrinkage:

PROPERTIES	TEST VALUE	METHOD
Water Absorption (%)	0.15	ISO 62- Test Method-1
Linear Shrinkage (%)	<0.7	Internal Method

This test is done on linear sample with dimensions (1 cm × 1 cm × 100 cm).

Note: The laboratory data and results presented herein were obtained through the use of specific methods mentioned and all necessary precautions, high quality lab reagents, and efficient equipment's by FARAPOL JAM CHEMICAL INDUSTRIES. FARAPOL does not guarantee duplication of such results by third parties.

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