

Technical Data Sheet

Farapol Jam Chemical Indus. Co.

FARAPOL O 128

Product Description

Farapol O 128 is an Orthophthalic-based unsaturated polyester resin dissolved in styrene, non-accelerated and non-thixotropic. It has medium to high viscosity, low reactive, low styrene emission (LSE), crack resistance, excellent filler suspension and high solid content. This resin is available with special colorless cobalt Octoate.

Applications and Use

This resin is designed for the manufacturing of artificial marble, architectural panels, filled resin objects, decorative castings and wall panels.

Certificates and Approvals

Farapol O 128 is manufactured from raw materials listed in FDA regulation Title 21 CFR 177.2420. Farapol Jam Chemical Industrial Company carries out this resin's production, quality control, and distribution in compliance with ISO 9001, 14001, 45001, 10002, 10004, 10015, and 17065 standards.

Typical Liquid Resin Properties

Property @ 25 °C	Unit	Specification	Method
Viscosity Brookfield ¹	cps	950 - 1000	ISO 2555
Acid Value	mgKOH/g	Max 25	ASTM D 1639
Solid Content	%	65 - 67	ISO 3251
Color	Gardner	Max 1	ASTM D 1544
Specific Gravity	relative	1.14-1.17	ISO 2811
Gel Time ¹	minute	16 - 19	ASTM D 2471
Exothermic Peak Temperature	°C	120-135	ASTM D 2471

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

Gel Time Behavior of Resin²

Temperature (°C)	18	25	30
Gel Time (minute)	26-30	16-19	10-14

2) Gel time measuring formulation used: (Cobalt Octoate Farapol C 901 1%- 1.0 phr, Akperox A60 1.0 phr).



T.0ypical Casted Resin Properties³

Unit	Specification	Method
MPa	Min 70	ISO 3268, ASTM D638, ISO 527-2&4
%	Min 3.0	ISO 3268, ASTM D638, ISO 527-2&4
GPa	Min 2.8	ISO 3268, ASTM D638, ISO 527-2&4
MPa	Min 110	ISO 178/ASTM D 790
GPa	Min 3.0	ISO 178/ASTM D 790
⁰ C	Min 50	ISO 75
Barcol	Min 35	ASTM D 2583
%	≈ 0.40	ISO 62- Test Method 3
%	≈ 1.7	Internal method
	MPa % GPa MPa GPa GPa GPa % Barcol	MPa Min 70 % Min 3.0 GPa Min 2.8 MPa Min 110 GPa Min 3.0 °C Min 50 Barcol Min 35 % ≈ 0.40

- 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 °C.
- 4) This test is done on the linear sample with dimensions (1 cm \times 1 cm \times 100 cm).

Handling, Storage and Stability

FARAPOL O 128 is a product 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 abovementioned conditions, the shelf life for FARAPOL O 128 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 responsible to familiar with the material handling and safety data sheet before using the product.

Packaging

FARAPOL O 128 is supplied in 200 Kg steel barrels, IBC tanks and bulk road tankers.

Notice

The information contained herein is provided in good faith and is to the best of our knowledge accurate, 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.

Document Registration

Pub. No: POL- F-76-33 Revision No.: 3 Rev. Date: 11/30/2023

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