

Technical Data Sheet

Farapol Jam Chemical Indus. Co.

FARAPOL O 115-C

Product Description	Farapol O 115-C is an Orthophthalic-based unsaturated polyester resin dissolved in styrene, accelerated		
	and non-thixotropic. It has a low to medium viscosity, medium reactivity, good impregnation of glass		
	fiber and good process abilities.		

Applications and
UseThis resin is designed for manufacturing of decorative items, sheets, architectural panels, filled resin
objects and junctions.

Certificates and
ApprovalsFarapol O 115-C 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	Property @ 25 °C	Unit	Specification	Method
Resin Properties	Viscosity Brookfield ¹	cps	300 - 450	ISO 2555
	Acid Value	mgKOH/g	Max 32	ASTM D 1639
	Solid Content	%	60 - 62	ISO 3251
	Color	Gardner	Max 2	ASTM D 1544
	Specific Gravity	relative	1.11-1.13	ISO 2811
	Gel Time ¹	minute	20 - 22	ASTM D 2471
	Exothermic Peak Temperature	°C	140-180	ASTM D 2471

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

Gel Time Behavior of Resin ²	Temperature (°C)	18	25	30
	Gel Time (minute)	28-31	20-22	15-18
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2) Mix ratio for measuring Gel Time: (Cobalt Octoate Farapol C 901 1% - 1.0 phr, Akperox A60 1.0 phr).



Typical Casted	Property	Unit	Specification	Method		
Resin Properties ³	Tensile Strength	MPa	Min 65	ISO 3268, ASTM D638, ISO 527-2&4		
	Elongation at Break	%	Min 3.5	ISO 3268, ASTM D638, ISO 527-2&4		
	Tensile Modulus	GPa	Min 3.0	ISO 3268, ASTM D638, ISO 527-2&4		
	Flexural Strength	MPa	Min 120	ISO 178/ASTM D 790		
	Flexural Modulus	GPa	Min 3.5	ISO 178/ASTM D 790		
	Glass Transition Temperature (Tg)	⁰ C	87.5	ASTM E 1640		
	Heat Deflection Temperature (HDT)	⁰ C	Min 60	ISO 75-2 Test Method A		
	Barcol Hardness	Barcol	Min 40	ASTM D 2583		
	Water Absorption	%	pprox 0.25	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 °C. 4) This test has been done on the specimen with linear dimensions (1 cm × 1 cm × 100 cm). 					
Handling, Storage and Stability	FARAPOL O 115-C 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 above-mentioned conditions, the shelf life for FARAPOL O 115-C is 3 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 O 115-C 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 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 variations in testing conditions across different laboratories may result in discrepancies, and a tolerance of up to 5% in test results should be expected. 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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