

Technical Data Sheet

Farapol Jam Chemical Indus. Co.

FARAPOL T 505

Product Descriptio	Farapol T 505 is a Terephthalic acid-based unsaturated polyester resin dissolved in styrene, non-accelerated and non-thixotropic. It has a medium viscosity, medium reactive, good impregnation to glass fiber and good process abilities.							
Applications and Use	e	This resin is designed for the manufacturing of decorative items, sheets, architectural panels, filled resin objects, roof sheeting resin and junctions.						
Certificates and Approvals	Farapol Jam Cher	Farapol T 505 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 Brookfiel	d^1	cps	300 - 400	ISO 2555			
	Acid Value		mgKOH/g	18-22	ASTM D 1639			
	Solid Content	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 °C	18 - 20	ASTM D 2471			
	Exothermic Peak Te	Exothermic Peak Temperature		140-170	ASTM D 2471			
Gel Time	1) Gel Time and Viscosity can be adjusted as per customer requirements.Temperature (°C)182530							
Behavior of Resin ²	Gel Time (minute)	25-28	18-2	20	13-15			

2) Gel time measuring formulation used: (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 60	ISO 3268, ASTM D638, ISO 527-2&4			
	Elongation at Break	%	Min 4.0	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 110	ISO 178/ASTM D 790			
	Flexural Modulus	GPa	Min 3.0	ISO 178/ASTM D 790			
	Heat Distortion Temperature	⁰ C	Min 65	ISO 75			
	Barcol Hardness	Barcol	Min 30	ASTM D 2583			
	Water Absorption	%	pprox 0.40	ISO 62- Test Method 3			
	Linear Shrinkage ⁴	%	≈ 1.8	Internal method			
	 Materials used for curing are: (Cobalt Oc Room Temperature and 3 hrs at 80 °C. This test is done on the linear sample with 	-		ox A60 1.0 phr). Curing Time is 24 hrs at			
Handling, Storage and Stability	FARAPOL T 505 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 above-mentioned conditions, the shelf life for FARAPOL T 505 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 T 505 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.						
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