Technical Data Sheet



Farapol Jam Chemical Indus. Co.

FARAPOL I 201

Product Description	Farapol I 201 is an Unsaturated Polyeste in and cross-linked with Styrene Monor performance combining a good elonga corrosion resistance, resilience, cracking	ner. The pr tion at brea	oduct is medium i ak in tension and	eactive and has good mechanical high HDT. The resin has good		
Applications and Use	This resin is designed for fabrication us and molded grating applications process of the important uses of this resin.					
Certificates and Approvals	Farapol I 201 is manufactured 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	400 - 500	ISO 2555		
	Acid Value	mgKOH/g	Max 15	ASTM D 1639		
	Solid Content	%	60 - 64	ISO 3251		
	Color	Gardner	Max 2	ASTM D 1544		
	Specific Gravity	relative	1.11-1.13	ISO 2811		
	Gel Time ¹	minute	16 - 18	ASTM D 2471		
	Exothermic Peak Temperature	°C	150-180	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)	29-32	16-18	9-12

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 75	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 3.3	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		
	Heat Distortion Temperature	⁰ C	Min 85	ISO 75		
	Barcol Hardness	Barcol	Min 40	ASTM D 2583		
	Water Absorption	%	pprox 0.25	ISO 62- Test Method 3		
	Linear Shrinkage ⁴	%	≈ 1.6	Internal method		
	 3) Materials used for curing are: (Cobalt Octoate Farapol C 9010 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 × 1 cm × 100 cm). 					
Handling, Storage and Stability	FARAPOL I 201 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 conditions mentioned above, the shelf life for FARAPOL I 201 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 datasheet before using the product.					
Packaging	Farapol I 201 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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