Technical Data Sheet



Farapol Jam Chemical Indus. Co.

FARAPOL O 137

Product Description	Farapol O 137 is an Orthophthalic-based unsaturated polyester resin dissolved in styrene, non-accelerated and non-thixotropic. It has a medium viscosity, low styrene emission (LSE), crack resistance, and excellent filler suspension. Farapol O 137 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, vanities, bathtubs and wall panels.							
Certificates and Approvals	Farapol O 137 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	Property @ 25 °C	Unit	Specification	Method				
Resin Properties	Viscosity Brookfield ¹	cps	500 - 550	ISO 2555				
•	Acid Value	mgKOH/g	Max 28	ASTM D 1639				
	Solid Content	%	62 - 64	ISO 3251				
	Color	Gardner	Max 1	ASTM D 1544				
	Specific Gravity	relative	1.12-1.14	ISO 2811				
	Gel Time ¹	minute	8 - 10	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 7	Cemperature (°C) 18	25		30				

Gel Time	Temperature (°C)	18	25	30
Behavior of Resin ²	Gel Time (minute)	20-25	8-10	5-7

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



T.0ypical Casted	Property	Unit	Specification	Method			
Resin Properties ³	Tensile Strength	MPa	Min 70	ISO 3268, ASTM D638, ISO 527-2&4			
	Elongation at Break	%	Min 3.0	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 120	ISO 178/ASTM D 790			
	Flexural Modulus	GPa	Min 3.5	ISO 178/ASTM D 790			
	Heat Distortion Temperature	⁰ C	Min 70	ISO 75			
	Barcol Hardness	Barcol	Min 40	ASTM D 2583			
	Water Absorption	%	pprox 0.20	ISO 62- Test Method 3			
	Linear Shrinkage ⁴	%	≈ 1.6	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 is done on the linear sample with dimensions (1 cm × 1 cm × 100 cm). 						
Handling, Storage and Stability	FARAPOL O 137 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 137 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 fully responsible for reviewing the material's Safety Data Sheet (SDS) and understanding proper handling procedures prior to using the product.						
Packaging	FARAPOL O 137 is supplied in 200) Kg steel bar	rrels, IBC tanks and	d 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.						
Document Registration	Pub. No: POL- F-76-33 Revis	ion No.: 3	Rev. Date: 11	/23/2024			
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