Technical Data Sheet

Farapol Jam Chemical Indus. Co.

FARAPOL O 141

Product Descriptio	accelerated and non	Farapol O 141 is an Orthophthalic-based unsaturated polyester resin dissolved in styrene, non-accelerated and non-thixotropic. It has a low to medium viscosity, medium reactivity, good impregnation of glass fiber and good process abilities.						
Applications and Use	Farapol O 141 is sp	Farapol O 141 is specially formulated and designed for manufacturing all types of car cabins.						
Certificates and Approvals	Farapol Jam Chem	Farapol O 141 is synthesized 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	Acid Value Solid Content Color Specific Gravity Gel Time ¹ Exothermic Peak Te	Viscosity Brookfield ¹ Acid Value Solid Content Color Specific Gravity Gel Time ¹ Exothermic Peak Temperature		Specification 400-500 Max 30 65 - 68 Max 2 1.11-1.13 15 - 20 145-160	Method ISO 2555 ASTM D 1639 ISO 3251 ASTM D 1544 ISO 2811 ASTM D 2471 ASTM D 2471			
Gel Time Behavior of Resin ²	Temperature (°C) Gel Time (minute) 2) Mix ratio for measure	18 27-32 rring Gel Time: (Cobalt O	25 15-2 ctoate Farapol (30 10-14 perox A60 1.0 phr).			





Typical Casted Resin Properties ³	Property	Unit	Specification	Method			
	Tensile Strength	MPa	Min 55	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 Deflection Temperature (HDT)	⁰ C	Min 50	ISO 75-2 Test Method A			
	Barcol Hardness	Barcol	Min 45	ASTM D 2583			
	Water Absorption	%	pprox 0.20	ISO 62- Test Method 3			
	Overall Shrinkage ⁴	%	≈75	ISO 3521			
	 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 has been done on the specimen with linear dimensions (1 cm × 1 cm × 100 cm). 						
Handling, Storage and Stability	FARAPOL O 141 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 141 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 141 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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