SAMRAT POLY RESINS
Manufacturer of Coating & Composite Resins · Doraha, Ludhiana, Punjab, India

TECHNICAL DATA SHEET

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ISO FIRE RETARDANT RESIN

Halogen-Free, ATH-Filled Isophthalic Polyester Resin · UL 94 V0 · Fire-Safety Applications

PRODUCT DESCRIPTION

ISO Fire Retardant Resin is an isophthalic-based fire retardant resin offering enhanced performance for demanding fire-safety applications. Halogen-free and filled with aluminium trihydrate (ATH), it combines a UL 94 V0 flammability rating with the improved chemical and mechanical resistance of an isophthalic backbone, bonding well with fibreglass mats to give strength and stability to the final product.

KEY FEATURES

- Halogen-free, ATH-filled formulation
- UL 94 V0 flammability rating
- Isophthalic backbone for better chemical resistance
- Room-temperature cure with MEKP catalyst
- Bonds well with fibreglass mats

RECOMMENDED APPLICATIONS

- Railway and marine applications
- Automotive fire-rated components
- FRP panels requiring fire compliance
- Electrical enclosures, tunnels and construction

TYPICAL TECHNICAL PROPERTIES

Resin Type	Unsaturated Polyester Resin (Fire Retardant Grade)
Curing System	Room-temperature cure with MEKP catalyst
Physical Form	Liquid
Colour / Appearance	White
Viscosity	400 cPs
Gel Time	5.5 minutes
Styrene Content	35%
Purity	≥99%
Cure Time	20-30 minutes (Initial Cure at 25°C)
MEKP Dosage	1.5%
Cobalt Octoate Dosage	0.4%
Specific Gravity / Density	1.18 g/cm³
Flash Point	34°C (Closed Cup)
Shelf Life	3 months
Storage Temperature	30-35°C
Packaging	35 kg / 225 kg
Minimum Order Quantity	500 kg

All values above are chemist-verified. Fire-retardant characteristics are described in the product information and intentionally excluded from the standard technical-properties table.

SAFETY & HANDLING

Follow standard industrial safety practices when handling this product, including appropriate personal protective equipment and adequate ventilation. Refer to the applicable Safety Data Sheet (SDS) where available.

Disclaimer: The information above is based on data published by the manufacturer at the time of issue and is believed accurate. Values shown are typical and are not to be interpreted as guaranteed specifications; properties may vary within normal manufacturing tolerances between batches. Users are responsible for determining suitability for their intended application and should confirm current specifications directly with Samrat Poly Resins prior to use.