



SAMRAT POLY RESINS

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

TECHNICAL DATA SHEET

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DMC/SMC RESIN

Orthophthalic Unsaturated Polyester Resin · DMC & SMC Moulding Compounds · Electrical Grade

PRODUCT DESCRIPTION

DMC/SMC Resin is a premium-grade orthophthalic unsaturated polyester resin engineered for the production of Dough Moulding Compound (DMC) and Sheet Moulding Compound (SMC) composites. Pale yellow with medium viscosity and a non-accelerated cure, it provides mechanical strength, dimensional stability and processing efficiency for high-volume manufacturing with superior surface finishes.

KEY FEATURES

- High mechanical strength and dimensional stability
- Fast curing with excellent fibre wet-out, low shrinkage
- Chemical, corrosion and moisture resistance
- Electrical insulation properties
- Superior surface finish for high-volume moulding

RECOMMENDED APPLICATIONS

- DMC and SMC moulding compounds
- Electrical housings and manhole covers
- Automotive panels and transportation components
- Water tanks and sanitaryware

TYPICAL TECHNICAL PROPERTIES

Resin Type	Orthophthalic unsaturated polyester resin
Grade	DMC / SMC moulding, FRP lamination, electrical components
Physical State	Liquid
Colour	Pale yellow
Viscosity	600 cPs (at 25 °C)
Curing Type	Non-accelerated
Key Characteristics	Excellent mechanical strength, chemical & corrosion resistance, low shrinkage, good electrical insulation
Gel Time	12–18 minutes (1.5% MEKP at 25 °C)
Styrene Content	35%
Catalyst / Dosage	MEKP 1.5%
Specific Gravity / Density	1.12 g/cm ³
Flash Point	32 °C (closed cup)
Shelf Life	3 months
Storage Temperature	Below 25 °C, cool & dry place
Packaging	225 kg drum
Minimum Order Quantity	1,000 kg

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.