



SAMRAT POLY RESINS

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

TECHNICAL DATA SHEET

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PET RESIN / POLYESTER PUTTY RESIN

PET-Modified Unsaturated Polyester Resin · Sheet Grade

PRODUCT DESCRIPTION

PET Resin is a premium-quality PET-modified unsaturated polyester resin, incorporating polyethylene terephthalate content into a liquid, styrene-compatible resin system. Pale-yellow in appearance, it is designed for sheet and laminate manufacturing, offering mechanical strength, impact resistance and dimensional stability with good processability for sheet and panel production.

KEY FEATURES

- PET-modified, sheet grade
- Low moisture absorption
- Durable and recyclable
- Good wet-out for sheet and laminate processing
- Supplied in 75 kg packs, minimum order 1000 kg

RECOMMENDED APPLICATIONS

- PET sheets and fibre sheet products
- FRP sheet lamination and panel manufacturing

TYPICAL TECHNICAL PROPERTIES

Resin Type	PET-modified unsaturated polyester resin (liquid)
Grade	Sheet grade
Composition	PET-modified unsaturated polyester resin with styrene reactive diluent
Physical Form	Liquid; pale yellow
Key Characteristics	High strength and toughness, chemical resistance, low moisture absorption, recyclable
Processing Methods	Hand lay-up, roller impregnation, sheet and panel lamination
Curing Method	MEKP-initiated free-radical curing of the unsaturated polyester resin system
Gel Time	5-12 minutes at 25°C
Styrene Content	30-40% w/w
Catalyst / Dosage	MEKP - 1.5% (recommended dosage)
Viscosity	450–650 cPs (at 25 °C)
Solid Content	60–64%
Specific Gravity / Density	1.05–1.12 g/cm ³ (at 25 °C)
HDT / Thermal Data	Heat deflection temperature 70–85 °C (cured)
Flash Point	Approx. 30°C
End Use	Fibre sheets, PET sheets
Storage	Store in a cool, dry place away from direct sunlight; keep container tightly closed
Shelf Life	6 months (unopened)
Packaging Size	75 kg
Minimum Order Quantity	1000 kg
Country of Origin	India

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.