TECHNICAL DATA SHEET

ESTEROCHEM EP-9000 UNSATURATED POLYESTER RESIN

Product Description

EP-9000 is an unsaturated polyester resin synthesized from Orthophthalic acid and standard glycol via polycondensation. It is cross-linked with styrene monomer to form a thermosetting three-dimensional polymer network upon curing. It exhibits medium viscosity and controlled reactivity, ensuring stable processing characteristics and improved handling performance. The formulation is pre-accelerated with amine to facilitate efficient free-radical polymerization and consistent curing behavior

Applications

It is specifically formulated for the production of automotive body fillers and putties, after curing it exhibits excellent,

- Adhesion
- Resistant to weak acids
- Elasticity

Technical Properties

Property	Value
Appearance	Yellowish
Styrene Content	30 – 35%
Acid Value	20≤ mg KOH/g
Solid Content	65 – 70 %
Mass Density	1.12 – 1.19 g/cm³
Viscosity @ 25°C	75 – 95 seconds
Gel Time @ 25°C	3 – 5 minutes
Peak Exothermic Temperature	130 – 135°C
Time to Peak Exotherm	11 – 15 minutes

Gel Time Calculation:

With 2% BPO Paste at @ 25°C

[Gel time and Viscosity can be optimized as per customer requirement]

Storage Guidelines

ESTEROCHEM EP-9000 should be stored in a cool, dark environment at or below 25°C. Exposure to higher temperatures may reduce the product's shelf life and affect performance.

Shelf Life

Under recommended storage conditions (≤25°C), the shelf life of the product is six months. Prolonged exposure to elevated temperatures will shorten shelf life.

Packaging

Supplied in 220 kg iron drums.