



ESTEROCHEM™

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/cm ³
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.

The information provided herein is based on our current level of knowledge and experience. As resin performance can vary due to numerous factors beyond our control, we strongly recommend users conduct their own preliminary tests to ensure product suitability for specific applications. Should there be any significant variation in resin properties, please contact your supplier immediately.