

SUPREME RESINS

D-7/7, MIDC PHASE I, DOMBIVLI (EAST)

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TECHNICAL DATA SHEET GELCOATS

Gelcoat is a modified Thermosetting Vinylester or Unsaturated Polyester Resins. It has very high gloss for smoother finishes and excellent wettability of glass and is compatible with pigment paste to make good tools.

It is mostly used in processes like Hand Layup, Sprayup, Infusion, RTM, etc. It can also be customized to make Flame Retardants as per requirements.

Physical Properties

Appearance	Thixotropic Liquid
Specific gravity @ 30°C	1.10 ± 0.01
Acid Value, mgKOH/g	25 ± 2
Volatile content, % by wt.	36 ± 2
Viscosity @ 30°C Brookfield Viscometer, cPs	5000
Gel Time, minutes at 30°C 1.0% v/w Cobalt Octoate (3% Co) 2.0% v/w MEKP (8% Active Oxygen)	8 ± 2
Peak Exotherm Temperature, °C	165 – 175

Properties of Cured Resins

Heat Deflection Temperature (HDT)	90°C
Water Absorption	0.10 %
Barcol Hardness	40
Total Volume Shrinkage	8 %
Flexural Strength	115 MPa
Flexural Modulus	3700 MPa
Elongation at Break	2%
Tensile Strength	60 MPa
Tensile Modulus	3400 MPa