

# SUPREME RESINS

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

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## TECHNICAL DATA SHEET ORTHOPHTHALATE RESIN - SPR 101

SPR 101 is an Orthophthalate based Unsaturated Polyester Resin displaying moderate physical and mechanical properties which is commonly used in applications like Railways, Leisure Equipments, Artificial Stone and Marbles, etc.

It is also used in processes like Hand Layup, SMC, DMC, Vacuum Infusion, Filament Winding, etc.

### Physical Properties

Appearance	Clear Pale Yellow Liquid
Specific gravity @ 30°C	1.10 ± 0.01
Acid Value, mgKOH/g	25 ± 2
Volatile content, % by wt.	35 ± 2
Viscosity @ 30°C Brookfield Viscometer, cPs	250 ± 50
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	170 – 180

### Properties of Cured Resins

Heat Deflection Temperature (HDT)	70°C
Water Absorption	0.10 %
Barcol Hardness	35
Total Volume Shrinkage	8 %
Flexural Strength	115 MPa
Flexural Modulus	3700 MPa
Elongation at Break	2%
Tensile Strength	60 MPa
Tensile Modulus	3400 MPa