

# SUPREME RESINS

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

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## TECHNICAL DATA SHEET PULTRUSION RESIN - SPR 104

SPR 104 is a Pultrusion based Unsaturated Polyester Resin of medium reactivity. Common usage areas are in Gratings, Industrial floorings, Ladders, Cable trays, rods, bars and other general Applications.

SPR 104 has excellent mechanical properties giving product very high tensile and flexural strength. It has moderate heat deflection properties. With its very good wetting characteristic, the resin can accept fillers and fibre at high ratios. It gives good quality high gloss surfaces.

### 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.	33 ± 1
Viscosity @ 30°C Brookfield Viscometer, cPs	800 ± 100
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	180 – 190

### Properties of Cured Resins

Heat Deflection Temperature (HDT)	80°C
Water Absorption	0.25 %
Barcol Hardness	40
Total Volume Shrinkage	8 %
Flexural Strength	115 MPa
Flexural Modulus	3700 MPa
Elongation at Break	3%
Tensile Strength	70 MPa
Tensile Modulus	3500 MPa