



## TECHNICAL DATA SHEET (TDS)

Product: PVC Cable Insulation Compound

Manufacturer: Pragya Polymers

Grade: ST1 – Premium

Application: Electrical Wires & Cables

### Grade Description

High-consistency PVC insulation compound offering improved surface finish, thermal ageing resistance, and electrical stability.

Property	Test Method	Typical Value	Unit
Density @ 23°C	ASTM D792	1.40 ±0.02	g/cm <sup>3</sup>
Hardness	ASTM D2240	85 ±3	Shore A
Tensile Strength	IS 5831	≥14.0	MPa
Elongation at Break	IS 5831	≥180	%
Thermal Ageing 100°C x 168h	IS 5831	Pass	-
Operating Temperature	IS 5831	70	°C

### Processing Guide

Single or twin screw; Barrel 145–165 °C; Die 165–175 °C; Excellent melt homogeneity.

### Notes & Compliance

Lead-free, RoHS & REACH compliant variants available. Suitable for premium house wiring.