



TECHNICAL DATA SHEET (TDS)

Product: PVC Cable Insulation Compound

Manufacturer: Pragya Polymers

Grade: ST2 – High Performance

Application: Electrical Wires & Cables

Grade Description

Enhanced ST2 compound for demanding applications requiring superior thermal ageing, deformation resistance, and process robustness.

| Property | Test Method | Typical Value | Unit |
|--------------------------------|-------------|---------------|-------------------|
| Density @ 23°C | ASTM D792 | 1.44 ±0.02 | g/cm ³ |
| Hardness | ASTM D2240 | 92 ±3 | Shore A |
| Tensile Strength | IS 5831 | ≥15.0 | MPa |
| Elongation at Break | IS 5831 | ≥180 | % |
| Thermal Ageing 100°C x 168h | IS 5831 | Pass | - |
| Operating Temperature | IS 5831 | 90 | °C |

Processing Guide

Twin screw preferred; Barrel 155–175 °C; Die 175–185 °C; Optimized for continuous high-load operation.

Notes & Compliance

Lead-free, RoHS & REACH compliant. Suitable for industrial and premium cables.