

## TECHNICAL DATA SHEET (TDS)

Product: PVC Cable Compound – RDSO Range  
 Manufacturer: Pragya Polymers  
 Grade: RDSO – Standard  
 Application: Railway Signalling & Power Cables

### Product Overview

A balanced PVC compound developed for general railway cable applications, offering dependable electrical insulation, thermal stability, and consistent processing performance.

Property	Test Method	Typical Value	Unit
Density @ 23°C	ASTM D792	1.45 ±0.02	g/cm <sup>3</sup>
Hardness	ASTM D2240	90 ±3	Shore A
Tensile Strength	IS 5831 / RDSO	≥12.5	MPa
Elongation at Break	IS 5831 / RDSO	≥150	%
Operating Temperature	RDSO	90	°C
Thermal Ageing 100°C x 168h	RDSO	Pass	-
Volume Resistivity	IS 5831	≥1×10 <sup>12</sup>	Ω·cm

### Processing Guide

Single screw extrusion recommended; Barrel temperature 150–170 °C; Die temperature 170–180 °C; Moderate shear preferred for dimensional stability.

### Compliance & Disclaimer

Formulated in line with applicable RDSO / Indian Railways specifications. Lead-free and RoHS compliant options available. Typical values are indicative and not specifications.