



TECHNICAL DATA SHEET (TDS)

Product: PVC Cable Compound – RDSO Range

Manufacturer: Pragya Polymers

Grade: RDSO – High Reliability

Application: Railway Signalling & Power Cables

Product Overview

A high-reliability PVC compound engineered for critical railway cable systems requiring enhanced thermal endurance, deformation resistance, and long service life.

Property	Test Method	Typical Value	Unit
Density @ 23°C	ASTM D792	1.47 ±0.02	g/cm ³
Hardness	ASTM D2240	94 ±3	Shore A
Tensile Strength	IS 5831 / RDSO	≥15.0	MPa
Elongation at Break	IS 5831 / RDSO	≥180	%
Operating Temperature	RDSO	90	°C
Hot Set @ 200°C	RDSO	≤80	%
Thermal Ageing 100°C x 168h	RDSO	Pass	-

Processing Guide

Twin screw preferred; Barrel temperature 155–175 °C; Die temperature 175–185 °C; Controlled residence time recommended.

Compliance & Disclaimer

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