



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 ³
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 ¹²	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.