ACCORD PREMIER CONVEYORS & CO.

GENERAL PURPOSE CONVEYOR BELT – SAR

TECHNICAL SPECIFICATIONS

(As per IS 1891: Part I / DIN 22102 / ISO 14890 – Extended Abrasion Grade)

1. COVER RUBBER PROPERTIES

PROPERTY	SPECIFICATION	TEST METHOD
Grade	Super Abrasion Resistant	IS 1891 / DIN 22102
Tensile Strength	≥ 25 MPa	ISO 37 / ASTM D412
Elongation at Break	≥ 400%	ISO 37 / ASTM D412
Abrasion Resistance	≤ 70 mm^3	DIN 53516 / ISO 4649
Hardness	62 ± 5 Shore A	ISO 868 / ASTM D2240

Rubber Composition High-grade synthetic + natural rubber, enriched for wear. Inhouse compounding.

2. CARCASS STRUCTURE

PARAMETER	SPECIFICATION
Fabric Type	EP (Polyester-Nylon) / NN (Nylon-Nylon)
Fabric Designation	EP 125 to EP 630 / NN 125 to NN 400
Ply Construction	2 to client specs (adjustable to load conditions)
Warp (Longitudinal)	Polyester (low elongation)
Weft (Transverse)	Nylon (high impact resistance)
Breaking Strength (Belt)	250 kN/m to 1000 kN/m
Adhesion Strength	≥ 3.2 kN/m (between plies) ≥ 2.2 kN/m (cover-ply)

3. COVER THICKNESS OPTIONS

LAYER	RANGE
Top Cover	4 mm to client specs (Standard: 5 or 6 mm)
Bottom Cover	2 mm to client specs (Standard: 2 or 3 mm)
Customization	Based on load size, drop height, and abrasiveness

4. DIMENSIONS & DESIGN

PARAMETER	SPECIFICATION
Belt Widths	300 mm to 2200 mm
Belt Length	Up to 500 meters in a single roll
Belt Thickness	Typically ranges from 9 mm to 18 mm
Edge Type	Cut Edge / Sealed Edge / Moulded Edge
Roll Diameter	Varies with ply rating and cover thickness

5. PERFORMANCE PARAMETERS

PARAMETER	SPECIFICATION
Elongation at 10% Load	≤ 2%
Abrasion Resistance	Superior (≤ 70 mm^3)
Impact Resistance	Very High
Tear Resistance	High
Moisture Resistance	Excellent
Trough ability	Excellent for deep trough configurations
Tracking Stability	Highly stable under heavy loads

6. APPLICATION AREAS

- Iron ore, quartz, bauxite, and granite handling
- High Impact zones at crusher points.
- Cement, steel, and mining industries
- Bulk transfer of sharp, heavy, and abrasive materials

7. MANUFACTURING & QUALITY

ASPECT	DETAILS
Standards Followed	IS 1891 (Part I), DIN 22102, ISO 14890
Customization	Yes – For load, abrasion, and drop conditions
Quality Testing	Lab tested abrasion values on request
Delivery Format	Supplied in rolls with batch & QC certifications