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PASSENGER AIR AGENCY
OF SOUTHERN AFRICA

PURCHASE AND SALE OF GOODS AGREEMENT

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W
TF
T.M



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PURCHASE AND SALE OF GOODS AGREEMENT

SPECIFICATION FOR THERMAL TRANSFER PRINTING RIBBONS (SINGLE TRANSFER) FOR TICKET ISSUING MACHINES

1. SCOPE OF SPECIFICATION

- 1.1 This specification sets out the requirements of PRASA Rail for thermal transfer ribbons for use in ticket issuing machines. Ribbons must be supplied in continuous rolls on specified cores.
- 1.2 This specification sets out the actual requirements in paragraph 11.

2. RESPONSIBILITY OF SUPPLIER

- 2.1 The supplier shall be completely responsible to PRASA Rail for the manufacture and supply of the material as specified herein.
- 2.2 Supplier must guarantee that the material supplied will conform to this specification.
- 2.3 Should delivered ribbons be found to deviate from this specification, such ribbons will be returned to the supplier, and any costs associated with the supply of such sub-standard ribbons will be for the supplier's account.
- 2.4 It is expected of the supplier that a batch numbering system be implemented for quality control purposes.
- 2.5 The manufacturer shall certify that ribbons provided will operate successfully in the intended equipment.

3. PENALTIES

Should the supplier fail to produce the ordered material or produce defective material by the time period stipulated in the contract, or by such extended date/s as may be allowed, the supplier shall pay to PRASA Rail as a penalty, for each day or portion thereof beyond the stipulated time period of completion or such extended date/s as may be allowed a sum being R 5 000.00 per day.

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4. PACKING AND LABELLING OF MATERIAL

- 4.1 The supplier shall be entirely responsible to PRASA Rail for all the material until it is accepted by Metrorail, and an acceptance certificate was issued.
- 4.2 Ribbons shall be packed upright, with rolls laid flat and each roll individually shrink wrapped in moisture proof wrapping in quantities of twenty five, in suitable corrugated cardboard containers.
- 4.3 All ribbons shall be packed as to prevent damage in transit or storage.
- 4.4 Each cardboard carton shall be permanently marked on at least two opposite sides with the following information:
- (i) Contents/quantity
 - (ii) Ribbon type and colour
 - (iii) Batch number
 - (iv) Order number
- 4.5 All ribbons packed into a container shall be identical.

5. ENVIRONMENT

- 5.1 The ribbons herein specified are to be stored and utilized in an environment which is uncontrolled. It is a firm requirement that the ribbons offered retain the specified properties and dimensions at all possible combination of the environment as stated below:
- (a) Ambient temperature : 0 C to 50 C
 - (b) Relative humidity : 15% to 90%
(None condensing)
 - (c) Altitude : 0 – 2 000 meters above sea level
 - (d) Dust and vapours : Accumulate rapidly
 - (e) Air pollution : Heavily saline laden industrial fumes
- 5.2 The ribbons offered shall be suitable for use at any site in the Republic of South Africa.

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6. SINGLE TRANSFER THERMAL RIBBON PROPERTIES

Application type:	Single Transfer Thermal Ribbon
General:	Smear less and acceptable for printing as per specification No. SCPA-1
Receptor:	As per specification No. SCPA-1

6.1 Physical properties of ink:

Viscosity	50 to 3000 cps at 100 C
Melting point	65 to 85 C
Hardness (Penetration)	5 to 40
Printing speed	60 mm / s

6.2 Thermal Transfer Ribbon characteristics :

Colour	Black
Sensitivity	18 mj/mm ²

6.3 Base Film:

Base film thickness	5,7 um	Test Method	JIS C2318
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6.4 Tensile strength:

Length	17 to 23 kb/mm	Test Method	JIS C2318
Width	18 to 24 kb/mm	Test Method	JIS C2314

6.5 Elongation:

Length	90 to 130 %	Test Method	JIS C2318
Width	90 to 130 %	Test Method	JIS C2318
Density	1,4 g/cubic cm	Test Method	JIS C2318

6.6 Printing characteristics:

Image density	Better than 1,4	Unit	Macbeth
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6.7 Reliability of Printed Images:

Resistance to heat and rub force	Scannable after rubbed by corrugated cardboard. 100 back and forth rubs
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Loading for test	100 g/cm
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6.8 Resistance to:

Heat and rubbing force	As for test of reliability of printed images
Solvents when rubbed with cotton wool and solvents at room temperature	Must not dissolve when rubbed with alcohol or oil.

7 GENERAL REQUIREMENTS

7.1 Leaders

Ribbons shall be equipped with leaders, as described below. Ribbon leaders are required to enable full usage of inked material.

7.2 Composition of leaders and trailers

Sky-blue leaders of 300mm in length must be secured to the ribbon.

No trailer must be used and the ribbon must be fixed directly onto the core.

7.3 Securing of ribbon to leaders

Adhesives used to join the leaders and cores to the ribbons may not seep from joints. It may not cause layers to stick together or affect the operation in any way. Joints must be strong enough to withstand the forces applied in the operation.

The ribbon must display a clean cut on the edges. No jagged-ness is allowed.

7.4 Force applied when rolling ribbon up

The material shall be wound evenly on the core and with sufficient tension, so as to prevent telescoping with normal handling.

8. PHYSICAL DIMENSIONS OF RIBBONS TO BE USED ON THE PRINTRONIX PRINTERS

8.1 Description of Ribbon Roll:

Roll diameter (max)	81 mm
Roll length (material)	550 m
Roll width	88 mm
Method of winding ribbon	Inked/Coated surface to outside of roll

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8.2 Description of Ribbon Core:

Core Length	88 mm
Inner diameter	25.4 mm
Outer diameter	31.4 mm

8.3 Description of Ribbon Take-Up Core:

Core Length	88 mm
Inner diameter	25.4 mm
Outer diameter	31.4 mm

Note: The width of the ticket will be 54 mm ± 0,4 mm

The length of ticket will be 86,5 mm ± 0,7 mm.

A ribbon will print ±10 185 tickets.

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