

This technical data sheet refers to the following Lighthouse product(s):

CPMR40, Outdoor Durable Resin Ribbon

DESCRIPTION

High opacity/durability full black resin thermal transfer ribbon with superior resistance to heat, abrasion and chemicals. For use with Lighthouse CPM-100/H.

COLOURS

Black

PHYSICAL SPECIFICATIONS	
Carrier	Polyester Carrier 4.5μ
Coating	Thermal Resistant Back Coated
Type	Pigmented Resin
Weight	Coat Weight 2.20 g/sq.m (typ)
Softening Temperature	>100°C (212°F)
CHARACTERISTIC SPECIFICATIONS	
Print Optical Density	> 1.9 ¹
Ribbon Transmission Density	> 0.85 ²
Bar Code Print Contrast	98% (typ) ³
QUALITY CONTROL (TYP)	
<ul style="list-style-type: none"> Coating Weights Checked During Production Print Uniformity Checks Fine Print Detail Check 	<ul style="list-style-type: none"> Bar Growth Check Ink Gloss Measurements Visual At Coater Visual At Slitter
MEASUREMENT DEVICES	
<ul style="list-style-type: none"> MacBeth RD-918¹ Tobias TBX-IR² PSC Quickcheck 500³ Taber Abraser after 100 cycles CS-10 wheel, 250 gm. Weight 	<ul style="list-style-type: none"> HunterLab Mini-Scan Macbeth Novo-Gloss 60° Glossmeter Dolan-Jenner Light Port, 150 watt quartz halogen, model I-150
STORAGE, USE AND HANDLING	
Temperatures	Avoid Temperatures above 40°C (104°F) Maintain above freezing temperatures 0°C (32°F)
Handling	Keep ribbon protected during storage
Shelf Life	1 year
Risks	Ribbon components are not considered health hazards, except when exposed to fire. Practice normal industrial hygiene and avoid ingestion.

IMPORTANT NOTICE

All Lighthouse products are subject to careful quality control throughout the manufacturing process and are warranted to be of merchantable quality and free from manufacturing defects. Published information concerning Lighthouse products is based on research, which the Company believes to be reliable, although such information does not constitute a warranty.

Because of the variety of uses of Lighthouse products and the continuing development of new applications, the purchaser should carefully consider the suitability and performance of the product for each intended use, and the purchaser shall assume all risks regarding such use. The seller shall not be liable for damages in excess of the purchase price of the product nor for incidental or consequential damages. All specifications are subject to change without prior notice.

This technical data sheet refers to the following Lighthouse product(s):

CPMR41 & CJ200R41, Outdoor Durable Resin Ribbon

DESCRIPTION

High opacity/durability full white resin thermal transfer ribbon with superior resistance to heat, abrasion and chemicals. For use with Lighthouse CPM-100/H & CJ-200C.

COLOURS

White

PHYSICAL SPECIFICATIONS	
Carrier	Polyester Carrier 4.5μ
Coating	Thermal Resistant Back Coated
Type	Pigmented Resin
Weight	Coat Weight 6.5gm/.sq.m.
QUALITY CONTROL (TYP)	
<ul style="list-style-type: none"> Coating Weights Checked During Production Print Uniformity Checks Fine Print Detail Check 	<ul style="list-style-type: none"> Bar Growth Check Ink Gloss Measurements Visual At Coater Visual At Slitter
MEASUREMENT DEVICES	
<ul style="list-style-type: none"> MacBeth RD-918 Tobias TBX-IR PSC Quickcheck 500 Taber Abraser after 100 cycles CS-10 wheel, 250 gm. Weight 	<ul style="list-style-type: none"> HunterLab Mini-Scan Macbeth Novo-Gloss 60° Glossmeter Dolan-Jenner Light Port, 150 watt quartz halogen, model I-150
STORAGE, USE AND HANDLING	
Temperatures	Avoid Temperatures above 40°C (104°F) Maintain above freezing temperatures 0°C (32°F)
Handling	Keep ribbon protected during storage
Shelf Life	1 year
Risks	Ribbon components are not considered health hazards, except when exposed to fire. Practice normal industrial hygiene and avoid ingestion.

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This technical data sheet refers to the following Lighthouse product(s):

CPMR42-46, Outdoor Durable Resin Ribbon

DESCRIPTION

Based on field experience, users can expect durability of 3-5 years. Durability will be affected by non-vertical applications and exposure to abrasion and chemicals. For use with Lighthouse CPM-100/H.

COLOURS

Red (CPMR42), Blue (CPMR43), Green (CPMR44), Yellow (CPMR45) & Orange (CPMR46).

PHYSICAL SPECIFICATIONS	
Carrier	Polyester Carrier 4.5μ
Coating	Thermal Resistant Back Coated
Type	Pigmented Resin
Weight	Coat Weight 6.5gm/.sq.m.
QUALITY CONTROL (TYP)	
<ul style="list-style-type: none"> • Coating weights • Colour consistency • Print Uniformity 	<ul style="list-style-type: none"> • Fine Print Detail • Visual At Coater • Visual At Slitter
STORAGE, USE AND HANDLING	
Temperatures	Avoid Temperatures above 40°C (104°F) Maintain above freezing temperatures 0°C (32°F)
Handling	Keep ribbon protected during storage
Shelf Life	1 year
Risks	Ribbon components are not considered health hazards, except when exposed to fire. Practice normal industrial hygiene and avoid ingestion.

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This technical data sheet refers to the following Lighthouse product(s):

CPMR47, Outdoor Durable Resin Ribbon

DESCRIPTION

This ribbon is a clear resin formulated to protect graphics and signs printed on vinyl substrates. For use with Lighthouse CPM-100/H.

COLOURS

Clear (Abrasion Guard)

PHYSICAL SPECIFICATIONS	
Carrier	Polyester Carrier 5.7 μ
Coating	Thermal Resistant Back Coated
Weight	Coat Weight 1.9 g/m (typ)
Softening Temperature	100°C (212°F)
QUALITY CONTROL (TYP)	
<ul style="list-style-type: none"> Coating Weights Checked During Production Print Uniformity Checks Fine Print Detail Check 	<ul style="list-style-type: none"> Bar Growth Check Ink Gloss Measurements Visual At Coater Visual At Slitter
MEASUREMENT DEVICES	
<ul style="list-style-type: none"> MacBeth RD-918 Tobias TBX-IR PSC Quickcheck 500 Taber Abraser after 100 cycles CS-10 wheel, 250 gm. Weight 	<ul style="list-style-type: none"> HunterLab Mini-Scan Macbeth Novo-Gloss 60° Glossmeter Dolan-Jenner Light Port, 150 watt quartz halogen, model I-150
STORAGE, USE AND HANDLING	
Temperatures	Avoid Temperatures above 40°C (104°F) Maintain above freezing temperatures 0°C (32°F)
Handling	Keep ribbon protected during storage
Shelf Life	1 year
Risks	Ribbon components are not considered health hazards, except when exposed to fire. Practice normal industrial hygiene and avoid ingestion.

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This technical data sheet refers to the following Lighthouse product(s):

CPMR49-52, Outdoor Durable Resin Ribbon

DESCRIPTION

Resin ribbon designed to provide a durable image onto vinyl substrate labels. It is optimised for resistance to smudging and scratching and is totally chemical resistant. The structure of these ribbons is based on a special formulation comprising synthetic resins. They guarantee long-lasting legibility thanks to highest possible durability and stability of the print. For use with Lighthouse CPM-100/H.

APPLICATIONS

Ideal for harsh environments, drum labels, signage, outdoor labels, pharmaceutical labels.

COLOURS

Light Grey (CPMR49), Beige (CPMR50), Lacquer Silver (CPMR51) & Lacquer Gold (CPMR52).

PHYSICAL SPECIFICATIONS	
Ink Type	Resin
Ribbon Thickness	8.8 µm
Base Film Material	Polyester
Base Film Thickness	4.5 µm
Transmission Density	More than 1.5 (Macbeth)
Recording Energy	17 mJ/mm ₂
Scratch Resistance	In a rubbing test, withstood more than 4000 cycles at 200g/cm ₂
PRINTING PROPERTIES	
Image Density	More than 2.0 (Macbeth)
Symbol Grade	More than ANSI 3.5, A (Parallel Bar Code)
Label Face Stock	Vinyl and Polyester Film
Print Speed	Up to 6 inch/sec
Usage Conditions	5°C to 35°C, 10% to 80% Relative Humidity
Storage Conditions	0°C to 40°C, 10% to 90% Relative Humidity
KEY CHARACTERISTICS	
<ul style="list-style-type: none"> • Excellent results when tested for petrol and alcohol resistance • Exceptionally high scratch and smudge resistance • Outstanding temperature resistance 	<ul style="list-style-type: none"> • Print temperature in the upper third of the temperature range capability of printers • Heavy metal free formulation in accordance with EN 71
STANDARDS & COMPLIANCE	
<p>Ribbon manufactured in accordance with ISO 9001:2000 European Quality Standard Mentioned products guaranteed in compliance with the following EC directive:</p> <ol style="list-style-type: none"> 1. EN 2002/95/EC: Directive on the restriction of the use of certain hazardous substances in electrical equipment (RoHS) 2. EN 2002/96/EC: Directive on waste electrical and electronic equipment (WEEE) 	

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This technical data sheet refers to the following Lighthouse product(s):

CJ200R40, CJ200R42-44, Outdoor Durable Resin Ribbon

DESCRIPTION

This ribbon series is most popular for label and safety sign printing applications. It prints well on a wide variety of substrates. Some typical substrates include: 3M top coated polyesters.

COLOURS

Black (CJ200R40), Red (CJ200R42), Blue (CJ200R43) & Green (CJ200R44).

PHYSICAL SPECIFICATIONS	
Polyester Carrier 5.7 μ	
Thermal Resistant Back Coated	
Pigmented Resin	
STORAGE, USE AND HANDLING	
Avoid temperatures above 40°C (104°F)	
Maintain above freezing temperatures 0°C (32°F)	
Keep ribbon protected during storage	
Shelf Life – 1 year	
Ribbon components are not considered health hazards, except when exposed to fire. Practice normal industrial hygiene and avoid ingestion.	
CHARACTERISTIC SPECIFICATIONS	
<ul style="list-style-type: none"> Free from coating voids, skips, wrinkles or other conditions which would adversely affect the transfer integrity 	<ul style="list-style-type: none"> Quality Control: coating weights, colour consistency, print uniformity, fine print detail, visual at coater and slitter

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