

CPMSR40, Durable Resin Ribbon (for use with polyester & speciality material)

DESCRIPTION

Only resin ribbon capable of handling extreme environmental labelling with unmatched scratch and solvent resistance. Designed with anti-static and backcoat properties to protect the printhead provides unbeatable definition for crisp, extremely durable, and dense harsh environmental bar codes. For use with the Lighthouse CPM-100/H.

RECOMMENDED APPLICATIONS

- UL & CSA agency
- Asset Tracking
- Automotive Underhood
- Chemical Drum
- Circuit Board
- Electronic Components

- Extreme Environment
- Hazardous
- Healthcare
- Outdoor
- Product ID
- Security

COLOURS

Black – UL Recognized

RIBBON PROPERTIES				
Base Film thickness (µm)	4.8 ± 0.3 micrometer			
Total Thickness (µm)	7.5 ± 0.5 micrometer			
Ink Thickness (µm)	2.7 ± 0.2 micrometer			
Ink Melting Point	109°C (228°F)			
DURABILITY OF PRINTED IMAGE				
Print Density	> 1.9 densitometer			
Print Speed	6 IPS			
Smudge Resistance	ANSI A*	Colourfastness Tester – 100 Cycles at 500 Grams with		
		Cotton Cloth		
Scratch Resistance	ANSI A*	Colourfastness Tester – 50 Cycles at 200 Grams with		
		Stainless Steel Pointed Tip		
[*] Represents the American National Standard Institute (ANSI) Grade measured at the given conditions. Grade levels are A, B, C, D, and F, where A is excellent, B is above average, C is average, D is below average and F is poor.				

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.



Shelf

Signage Snack Food

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

CPMSR41, Durable Resin Ribbon (for use with polyester & speciality material)

DESCRIPTION

Offers the same incredible durability as CPMSR40 (Black). This ribbon has unmatched scratch and solvent resistance and has been designed with specially formulated backcoat technology for printhead protection. It is an industry leader in definition for clean, extremely durable, and dense bar codes. For use with the Lighthouse CPM-100/H.

RECOMMENDED APPLICATIONS

- UL & CSA agency
- Electronic Components
- Flexible Packaging
- Retail

PERFORMANCE CHARACTERISTICS

- Halogen-Free
- Smudge and scratch resistant
- Resistant to ethanol and isopropanol

COLOURS

White – UL Recognized

RIBBON PROPERTIES				
Base Film thickness (µm)	4.8 ± 0.3 micrometer			
Total Thickness (µm)	9.3 ± 0.5 micrometer			
Ink Thickness (µm)	4.5 ± 0.2 micrometer			
Ink Melting Point	96°C (205°F)			
DURABILITY OF PRINTED IMAGE				
Print Density	< 0.30 densitometer			
Print Speed	6 IPS			

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CPMSR42 & CPMSR44, Durable Resin Ribbon (for use with polyester & speciality material)

DESCRIPTION

Offers the same incredible durability as CPMSR41 (White) and is the industry's toughest colour resin ribbon capable of handling extreme environmental labelling with unmatched scratch and solvent resistance. For use with the Lighthouse CPM-100/H.

RECOMMENDED APPLICATIONS

- UL & CSA agency
- Asset Tracking
- Automotive
- Chemical
- Circuit Board

- Electronic Component
- Extreme Environment
- Product ID
- Signage

COLOURS

Red (CPMSR42) – UL Recognized Green (CPMSR44)

RIBBON PROPERTIES				
Base Film thickness (µm)	4.8 ± 0.3 micrometer			
Total Thickness (µm)	9.3 ± 0.5 micrometer			
Ink Thickness (µm)	4.5 ± 0.2 micrometer			
Ink Melting Point	96°C (205°F)			
DURABILITY OF PRINTED IMAGE				
Print Density	< 0.30 densitometer			
Print Speed	6 IPS			

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CPMSR43, Durable Resin Ribbon (for use with polyester & speciality material)

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 the Lighthouse CPM-100/H.

APPLICATIONS

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

COLOURS

Blue

Ink Type	Resin	Resin				
Ribbon Thickness	8.8 µm	8.8 µm				
Base Film Material	Polyester					
Base Film Thickness	4.5 µm	4.5 µm				
Transmission Density	More than 1.5 (Ma	More than 1.5 (Macbeth)				
Recording Energy	17 mJ/mm_	17 mJ/mm_				
Scratch Resistance	In a rubbing test, v	In a rubbing test, withstood more than 4000 cycles at 200g/cm_				
PRINTING PROPERTIES						
Image Density	More than 2.0 (Ma	acbeth)				
Symbol Grade	More than ANSI 3	More than ANSI 3.5, A (Parallel Bar Code)				
Print Speed	Up to 6 inch/sec	Up to 6 inch/sec				
Usage Conditions	5°C to 35°C, 10%	5°C to 35°C, 10% to 80% Relative Humidity				
Storage Conditions	0°C to 40°C, 10%	to 90% Relative Humidity				
KEY CHARACTERISTICS						
 Excellent results when tested for petrol and alcohol resistance 		Print temperature in the upper third of the temperature range capability of printers				
 Exceptionally high scratch and smudge resistance 		Heavy metal free formulation in accordance with EN 71				
 Outstanding tempera 						
STANDARDS & COMPLIAN	CE					
Dibbon monufactured in as	aardanaa with ISO 000	1:2000 European Quality Standard				

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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CPMSR45, Durable Resin Ribbon (for use with polyester & speciality material)

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 the Lighthouse CPM-100/H.

COLOURS

Dark Green

PHYSICAL SPECIFICATIONS				
Carrier	Polyester Carrier 4.5µ			
Coating	Thermal Resistant Back Coated			
Туре	Pigmented Resin			
QUALITY CONTROL (TYP)				
Coating weights		Fine Print Detail		
Colour consistency		Visual At Coater		
Print Uniformity		Visual At Slitter		
STORAGE, USE AND HANDLIN	IG			
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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