

# TECHNICAL DATA SHEET Speciality Durable Resin Ribbons

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

# CJPR4001 & CJ200SR40, Durable Resin Ribbon

### **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 Lighthouse CJ9700/CJ-Pro & CJ-200/CJ-200C.

# **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)	$4.8 \pm 0.3$	4.8 ± 0.3 micrometer		
Total Thickness (µm)	7.5 ± 0.5	7.5 ± 0.5 micrometer		
Ink Thickness (µm)	2.7 ± 0.2	2.7 ± 0.2 micrometer		
Ink Melting Point	109°C (22	109°C (228°F)		
DURABILITY OF PRINTED IM	AGE			
Print Density	> 1.9 den	> 1.9 densitometer		
Print Speed	6 IPS	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				

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.

All specifications are subject to change without prior notice.



# TECHNICAL DATA SHEET Speciality Durable Resin Ribbons

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

# CJPR4101, 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 CJ9700/CJ-Pro.

# **COLOURS**

White

PHYSICAL SPECIFICATIONS					
Carrier	Polyester Carrier 4.5µ				
Coating	Thermal Resistant Back Coated				
Туре	Pigmented Resin				
Weight	Coat Weight 6.5gm/.sq.m.				
QUALITY CONTROL (TYP)					
Coating Weights Checked During		Bar Growth Check			
Production		Ink Gloss Measurements			
Print Uniformity Checks		Visual At Coater			
Fine Print Detail Check		Visual At Slitter			
MEASUREMENT DEVICES					
MacBeth RD-918		HunterLab Mini-Scan			
Tobias TBX-IR		Macbeth Novo-Gloss 60° Glossmeter			
PSC Quickcheck 500		Dolan-Jenner Light Port, 150 watt quartz			
Taber Abraser after 100 cycles CS-10		halogen, model I-150			
wheel, 250 gm. Weight					
STORAGE, USE AND HANDLING					
Temperatures	Avoid Temperatur	oid Temperatures above 40°C (104°F)			
	Maintain above freezing temperatures 0°C (32°F)				
Handling Keep ribbon prote		cted during storage			
Shelf Life	1 year				
Risks	Ribbon componer	bon components are not considered health hazards, except when			
	exposed to fire. Practice normal industrial hygiene and avoid ingestion				

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# TECHNICAL DATA SHEET Speciality Durable Resin Ribbons

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

# CJPR4201-4401 & CJPR4601, 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 CJ9700/CJ-Pro.

### **COLOURS**

Red (CJPR4201), Blue (CJPR4301), Green (CJPR4401) & Yellow (CJPR4601)

PHYSICAL SPECIFICATIONS					
Carrier	Polyester Carrier 4.5µ				
Coating	Thermal Resistant Back Coated				
Туре	Pigmented Resin				
Weight	Coat Weight 6.5gm/.sq.m.				
QUALITY CONTROL (TYP)					
Coating weights		Fine Print Detail			
Colour consistency		Visual At Coater			
Print Uniformity		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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