



Thermal Transfer Ribbons

# US450

Resin

Near Edge,

TTO



US450 is a standard “Near Edge/Corner Edge” resin ribbon, especially designed for flexible packaging printing. It supports high-speed printing while providing exceptional smudge and scratch resistance.

## RIBBON SPECIFICATION

### RIBBON

GRADE : RESIN, NEAR-EDGE/TTO  
COLOUR : BLACK  
THICKNESS : 7.5±0.5 µm  
Anti-static formulation ink  
BASE FILM : POLYESTER (4.5±0.3 µm)  
BACK COAT : SILICONE BASED  
INK MELTING POINT : 83 °C

### STORAGE AND USE

STORAGE : 0-40 °C (32-104 °F), 20-80 %RH  
USE : 5-35 °C (41-95 °F), 20-80 %RH

### RECOMMENDED LABEL STOCK

PE, PP, PET,

### CERTIFICATIONS

HEAVY METALS : 2011/65/EU, (EU)2015/863 (RoHS, RoHS2.0)  
REACH : SVHC free  
HALOGEN-FREE : IEC 61249-2-21  
ISEGA CERTIFIED : Regulation (EC) no.1935/2004  
FDA, BPA

\*Above documents are available upon request.

### APPLICATION



FLEXIBLE PACKING

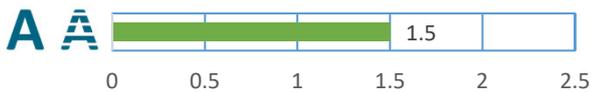


BARCODE

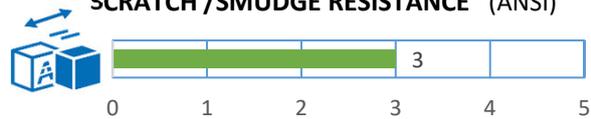


## RIBBON PERFORMANCE

### IMAGE DENSITY (KONICA MINOLTA FD-5)

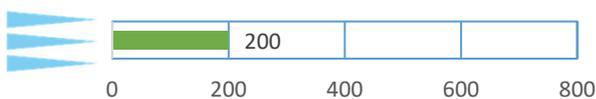


### SCRATCH /SMUDGE RESISTANCE (ANSI)

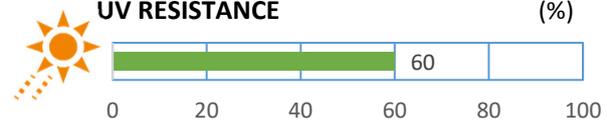


Pressure: 300g, Stroke Cycle: 3,000 cycles with Stainless ball (SUS304、φ3.175mm), (HEIDON 14DR)

### PRINT SPEED (mm/sec)

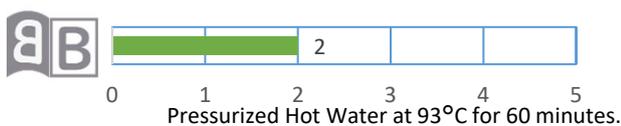


### UV RESISTANCE (%)



168 hours exposed on UV test machine.

### TRANSFER SENSITIVITY



### SOLVENT RESISTANCE



\* The numerical value indicated on this sheet is catalog value, and is not guarantee value.

\* The information shown above is tentative and subject to change without notice.



UNION CHEMICAL Global Network

Japan : Union Chemical Co., Ltd.

China (Tianjin) : Union Chemical (Tianjin) Co., Ltd.

India : Union Chemical India Pvt. Ltd.

United Kingdom : Union Chemical UK Limited

Netherlands : Union Chemical Europe B.V.



ISO 9001  
JQA-1784