

## DURAFOL™

### Extreme chemical resistant labelstock

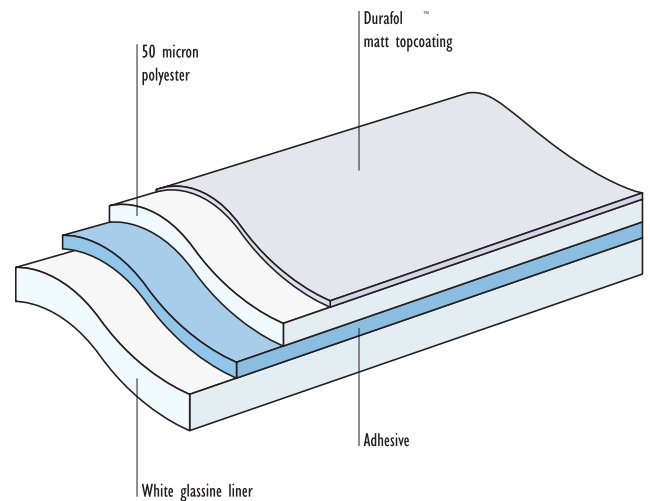


Durafol™ thermal transfer printable polyester enables the production of on-demand high performance variably printed labels. The products offer superior chemical, temperature and abrasion resistance without the use of an overlaminating film.

Durafol™ is intended to be of particular use in applications requiring extreme chemical and mechanical resistance, including under-bonnet marking in the automotive industry, aerospace identification, laboratory facilities, the chemical industry and general industrial labels where variable information, barcode traceability and extreme chemical and abrasion resistance are prerequisites.

Durafol's™ superior chemical resistance allows it to be thermal transfer printed and exposed to a variety of harsh chemicals such as toluene, brake fluid, Skydrol® and acetone. This high durability is achieved as a result of the engineered synergy between Durafol™ polyester and the Ricoh B110CU thermal transfer ribbon. The film exceeds the performance of conventional grades of printable polyester where the print and/or the topcoating can be removed when exposed to such harsh fluids.

Durafol polyester is available in matt white, matt silver and matt clear and is coated with a range of high performance adhesives offering superior adhesion, chemical and elevated temperature resistance.



Durafol™ is designed to be printed via thermal transfer enabling text, graphics and barcodes to be printed on demand.

Skydrol® is a registered trademark of Solutia Inc



# Marco

ID solutions for industry

## PRINT PERFORMANCE

Test labels were thermal transfer printed with a Ricoh B110CU ribbon.

Chemical resistance of printed image				
Chemical	Unit of measure	Test result	Test Method	Observations
IPA	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
Ethanol	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
Acetone	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
Xylene	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
MEK	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
White Spirit	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
SP95 Fuel	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
SP98 Fuel	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
Diesel	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
Brake Fluid	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
Toluene	50 crock meter rubs	5	AATCC 8	No transfer of ribbon
Skydrol®	50 crock meter rubs	4.5	AATCC 8	Minimal to no transfer of ribbon

Heat Resistance of printed image				
Temperature	Unit of measure	Test result	Test Method	Observations
250°C	2 sec 3.6kgf/cm	5	AATCC 8	No transfer of ribbon

The amount of ribbon transfer is rated against the AATCC color chart; 1 to 5.

1 = high percentage print/colour transfer onto crocking cloth 5 = no print/colour transfer onto crocking cloth

Abrasion of printed image				
Performance criteria	Unit of measure	Test result	Test Method	Observations
Taber Abrasion	CS10 500g load	40 cycles	ASTM D1044	Bar code and text readable

### Note

Durafol will only offer the above chemical resistance when printed with a Ricoh 110CU ribbon and an industrial thermal transfer printer. The use of other ribbons is not recommended. Small desktop printers are also not recommended due to insufficient pressure and head energy.

### Adhesive

Durafol is coated with PAT1 and P100 high performance acrylic adhesives and is available to order with P silicone adhesive for extreme environments.

### Data sheets

Full product data sheets are available upon request.