

## Autostat CP

### Provisional Data Sheet

#### PRODUCT DESCRIPTION

Autostat CP is a heat stabilised clear polyester film primed on one surface providing excellent adhesion to a range of graphic and circuitry inks, and with the reverse side protected by a cling film laminate.

**The product is currently under development**, and will be available in two gauges:

Autostat™ CP7 L 7 mil film (175µm) with laminate

Autostat™ CP10 L 10 mil film (250µm) with laminate

Autostat™ CP has low residual shrinkage at elevated temperatures, essential when tight registration tolerances need to be maintained during multiple printing operations. It is therefore suitable as a versatile print medium, offering outstanding high mechanical strength and good dimensional stability.

#### MECHANICAL PROPERTIES\*

Property	Units	Typical Values	Test Method	Test Conditions
Film thickness	Micron	175 µm ±9 µm 250 µm ±12 µm		
Tensile strength	Kg f/mm <sup>2</sup>	MD 20 TD 20	ASTM D882-83	Test speed 50%/min 23° C, 50% RH
Elongation at break	%	MD 125 TD 80	ASTM D882-83	Test speed 50%/min 23° C, 50% RH

\* Data derived from base film manufacturer's literature

#### THERMAL PROPERTIES

Property	Units	Typical Values	Test Method	Test Conditions
Dimensional Stability	%	MD <0.20% TD <0.08%	DIN 40634	150° C, 30 min

#### OPTICAL PROPERTIES

Property	Units	Typical Values	Test Method	Test Conditions
Yellowness index	-	<3.5	ASTM D 1925-63T	-



**PHYSICAL PROPERTIES**

Property	Units	Typical Values	Test Method	Test Conditions
Density	g/cm <sup>3</sup>	1.4	ASTM-D 1505-79	23°C

**ELECTRICAL PROPERTIES\***

Property	Units	Typical Values	Test Method	Test Conditions
Dielectric Strength	kV/mm	105	ASTM D149-81	(6.35mm electrodes dry air at 25°C)
Surface Resistivity	ohm <sup>-1</sup>	> 10 <sup>13</sup>	ASTM D 257-83	500V DC, 20°C, 54% RH
Volume Resistivity	ohm m	10 <sup>15</sup>	ASTM D 257-83	100V DC at 25°C for 1000s

\* Data derived from base film manufacturer's literature. Typical values are for 175µm film

**PACKAGING**

Sheets are converted with a tolerance of ± 1mm

Autostat™ CP7 L and CP10 L sheets are packed with the primer side down, and this is noted on the pack label. The laminate is on the non-primed side.

**STORAGE**

No special storage conditions required

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