



## Material Properties

LL7000 is a 5-7 year Engineering Grade Reflective film which is extremely durable yet remarkably flexible and thin, with outstanding workability for computer graphic cutting. The reflective has been tested to BS873 Part 6 and is available in black.

Performance	Test Method	Requirement	Average Result
<b>Specular Gloss</b>	Glossmeter 85°	More than 40	100
<b>Tensile Strength</b>	300mm/min	Above 2.25Kgf	11Kgf
<b>Adhesion</b>	800g weight hang at an Angle of 90° to the panel surface for 5mins	Under 50mm	35mm
<b>Resistance to heat</b>	71±3°C x 24 hrs	No crack, chip, peel, delaminate	No effect
<b>Resistance to cold</b>	-57±3°C x 72 hrs	" " " " "	"
<b>Resistance to humidity</b>	100%RH,27° C x 72hrs	" " " " "	"
<b>Impact resistance</b>	11.5Kg-cm impact	No crack, delaminate	"
<b>Liner removal</b>	Releasing film	Able to peel without adhesive residuum	Yes
<b>Flexibility</b>	Ø19mm, 180°	No crack, peel, chip, delaminate	No effect
<b>Shrinkage</b>	Putting adhesive surface up after peeling paper	Under 0.8mm in 10 mins Under 3.2mm in 24hrs	No shrinkage 0.05mm/24hrs
<b>Solvent resistance</b>	kerosines, Turpentine immersion for 10 mins Toluene, Xylene, Methanol immersion for 1 min	No dissolving puckering, Blistering	No effect
<b>Resistance to accelerated weathering</b>	<b>Reflectivity</b>	Weather-O-Meter 1000hrs	No less than 50% of value
	<b>Shrinkage</b>	Weather-O-Meter 1000hrs	Not more than 0.8mm
	<b>Colour fastness</b>	Weather-O-Meter 1000hrs	Good of better colour fastness
	<b>Adhesion</b>	Weather-O-Meter 1000hrs	Not to be removed
<b>Reflectivity</b>	Comply with LS-300C	To be required with LS-300C	Yes
	ASTM D 4956, JIS Z-9117	ASTM D 4956, JIS Z-9117	Yes
	Comply with LS-300C	To be required with LS-300C	Yes
<b>Colour</b>	ASTM D 4956, JIS Z-9117	ASTM D 4956, JIS Z-9117	Yes

## Structure

