

Product Construction Sheet

THERMLfilm[®] ADVANTAGE[™] Value Thin Clear



A thermal transfer printable clear 25 micron polyester film with print receptive top-coat, permanent acrylic adhesive and glassine liner. This product has UL recognition (file MH 16635)

Typical Physical Properties*

		Typical Value	Unit	Test Method
FILM – PET	Thickness	25	Micron	DIN 53370
ADHESIVE	Thickness	22	Micron	DIN 53370
	Adhesion From:			FTM 1 (72 hour dwell)
	Stainless Steel	525	N/m	
	Glass	550		
Polypropylene	680			
Automotive Paint	720			
	PBT	640		
	Shear	50	Hours	FTM 8
	Tack	601	gram/sq cm	ASTM D 2979
LINER	Thickness	56	Micron	DIN 53370
COMPLETE CONSTRUCTION	Service Temp	-40 to 150	°C	
	Application Temp	10°	°C	

Chemical Resistance*

Test Method: ASTM D896 All testing at room temperature, 24 hour dwell on stainless steel panel before immersion - 5 cycles of 10 minutes in solvent, 30 minutes recovery on stainless steel panel (24 hour recovery after last cycle) vs 72 hours on stainless steel panel at room temperature.

Glass Cleaner	No visual change, 10% adhesion loss
Isopropyl Alcohol	No visual change, 10% adhesion loss
Gasoline	Edge penetration, 20% adhesion loss
Toluene	Edge penetration, 20% adhesion loss
Oil (SAE 10W-30)	No visual change, 10% adhesion loss
Acetic Acid (5%)	No visual change, 10% adhesion loss
Water	No visual change, 10% adhesion loss

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Humidity Resistance*

Test method - on stainless steel panel at 38°C and 95% relative humidity vs 72 hour on stainless steel panel at room temperature.

1 day + 15 min recovery	No visual change, 35% adhesion loss
1 day + 24 hour recovery	No visual change or adhesion loss
7 days + 15 min recovery	No visual change, 40% adhesion loss
7 days + 24 hour recovery	No visual change or adhesion loss
3 day water immersion + 24 hour recovery	No visual change, 20% adhesion loss

Printability

Suitable for conventional and thermal transfer printing with wax, combo and resin ribbons.

Storage Recommendations

Material is stable for two years stored at max 21 °C and 50% relative humidity. Damp conditions, excessive heat and/or freezing conditions should be avoided.

Additional Information

Expected exterior life dependant on substrate but label material is outdoor resistant for at least 2 years.

Material meets RoHS requirements (2002/95/EC), IMDS data available upon request.

Please contact your customer service representative for the latest version of this Product Construction Sheet.

*** all technical data presented should be considered representative or typical only and should not be used for specification purposes.**

Product Performance and Suitability

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