

Product Construction Sheet

THERMLfilm® ADVANTAGE™ Extreme Range



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

THERMLfilm® Advantage™ Extreme	WHITE	PET-DWA2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN WHITE 	PET-DYA1-9U09A/36
THERMLfilm® Advantage™ Extreme	WHITE MATTE 	PET-DWC2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN SILVER	PET-DUA2-9U09S/36
THERMLfilm® Advantage™ Extreme	SILVER MATTE 	PET-DSC2-9U09S/36
THERMLfilm® Advantage™ Extreme	CLEAR	PET-DCA2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN CLEAR	PET-DEA2-9U09S/36
THERMLfilm® Advantage™ Extreme	THIN CLEAR (different thickness)	PET-BCA2-9U09S/36

THERMLfilm and ADVANTAGE are registered trademarks of Flexcon.

Typical Physical Properties*		Typical Value			Unit	Test Method
FILM – PET	Thickness	50	(25)	± 10%	Micron	ASTM D 3652
ADHESIVE	Thickness	36		± 3	Micron	ASTM D 3652
	Adhesion from:					N / 25mm FTM 1 (72 hour dwell)
	Stainless Steel	26	(19)			
	Glass	26	(18)			
	Polypropylene	30	(21)			
	Automotive Paint	30	(21)			
PBT	31	(22)				
	Shear	100			Hours	FTM 8 (1 hour dwell on stainless steel with a 2kg weight)
	Probe Tack	948	(850)		gram/sq cm	ASTM D 2979
LINER	Thickness	56		± 10%	Micron	ASTM D 3652
COMPLETE CONSTRUCTION	Service Temp	- 40 to 150			°C	
	Application Temp	10			°C	

Converting Recommendations

Suitable for conventional and thermal transfer printing with combo and resin ribbons. The Products are coated with a high performance 36 micron thick adhesive, proper set and clean dies are needed to allow good conversion.

For Clear material: High performance adhesive has a slight yellow color which cannot be avoided.

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 REACH/SVHC and RoHS requirements, IMDS data available upon request.

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Product Performance and Suitability

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Produkt Konstruktionsblatt

THERMLfilm® ADVANTAGE™ Extreme Range



Polyesterfolie mit Druckvorbehandlung für TTR Bedruckung, permanentem hochwertigen Acrylatkleber und Glassine Rollenträger.
Diese Produkt Konstruktionen haben eine UL-Zulassung unter Nummer MH16635.

THERMLfilm® Advantage™ Extreme	WEISS	PET-DWA2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN WEISS	PET-DYA1-9U09A/36
THERMLfilm® Advantage™ Extreme	WEISS MATT	PET-DWC2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN SILBER	PET-DUA2-9U09S/36
THERMLfilm® Advantage™ Extreme	SILBER MATT	PET-DSC2-9U09S/36
THERMLfilm® Advantage™ Extreme	TRANSPARENT	PET-DCA2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN TRANSPARENT	PET-DEA2-9U09S/36
THERMLfilm® Advantage™ Extreme	DÜNN TRANSPARENT (different thickness)	PET-BCA2-9U09S/36

THERMLfilm und Advantage sind eingetragene Marken von Flexcon

Physikalische Eigenschaften	Richtwert	Einheit	Testmethode
BASISFOLIE – PET	Stärke 50 (25) ± 10%	Micron	ASTM D 3652
KLEBSTOFF	Stärke 36 ± 3	Micron	ASTM D 3652
	Schälwerte:		
	Rostfreier Stahl 26 (19)		
	Glas 26 (18)		
	Polypropylen 30 (21)		
	Autolack 30 (21)		
	PBT 31 (22)		
	Scherfestigkeit 100	Std.	FTM 8 (Verweilzeit 1 Std. auf Edelstahl mit einer Belastung von 2Kg)
	Anfangshaftung 948 (850)	gram/sq cm	ASTM D 2979
TRÄGER	Stärke 56 ± 10%	Micron	ASTM D 3652
GESAMT-KONSTRUKTION	Temp. Bereich -40 to 150	°C	
	Verklebungstemperatur 10	°C	

Bedruckbarkeit

Geeignet für konventionelle Bedruckungsarten (Lösungsmittel, Wasser + UV Farben), sowie Thermotransfer mit Kombinations- und Harzbändern. Die Folien sind mit einem hochwertigen Acrylatkleber von 36µ beschichtet, gut abgestellte und saubere Stanzen sind erforderlich für eine Reibungslose Verarbeitung.

Für transparente Folien gilt, dass der Kleber leicht gelblich ist, was nicht vermieden werden kann.

Lagerung

2 Jahre haltbar bei Lagerung bei maximal 21°C und 50% relativer Luftfeuchtigkeit. Lagerung bei sehr hoher Luftfeuchtigkeit, Hitze oder Kälte vermeiden.

Zusätzliche Informationen

Die erwartete Lebensdauer bei Außenanwendungen ist von den Verklebungsoberflächen abhängig, Etiketten-material ist jedoch mindestens zwei Jahre witterungsbeständig.

Die Folie entspricht den REACH/SVHC und RoHS-Anforderungen – IMDS-Daten verfügbar auf Anfrage.

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Fiche Technique THERMLfilm® ADVANTAGE™ Extreme Range



Film Polyester avec un top-coat pour impression transfert thermique, adhésif acrylique extra permanent haute performance et un protecteur glassine pour rouleaux. Approuvé UL (fichier MH 16635).

THERMLfilm® Advantage™ Extreme	BLANC	PET-DWA2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN BLANC	PET-DYA1-9U09A/36
THERMLfilm® Advantage™ Extreme	BLANC MAT	PET-DWC2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN ARGENT	PET-DUA2-9U09S/36
THERMLfilm® Advantage™ Extreme	ARGENT MAT	PET-DSC2-9U09S/36
THERMLfilm® Advantage™ Extreme	TRANSPARENT	PET-DCA2-9U09S/36
THERMLfilm® Advantage™ Extreme	SATIN TRANSPARENT	PET-DEA2-9U09S/36
THERMLfilm® Advantage™ Extreme	THIN TRANSPARENT (autre épaisseur)	PET-BCA2-9U09S/36

THERMLfilm et Advantage sont des marques déposées Flexcon.

Propriétés Physiques Type		Valeur Type	Unité	Méthode de Test
FILM – PET	Epaisseur	50 (25) ± 10%	Micron	ASTM D 3652
ADHESIF	Epaisseur	36 ± 3	Micron	ASTM D 3652
	Adhésion sur :		N / 25mm	FTM 1 (72 heures)
	Acier	26 (19)		
	Verre	26 (18)		
	Polypropylène	30 (21)		
PROTECTEUR	Peinture Automobile	30 (21)		
	PBT	31 (22)		
	Cisaillement	100	Heures	FTM 8 (1 heure sur de l'acier avec un poids de 2kg)
CONSTRUCTION COMPLETE	Tack	948 (850)	gram/ cm ²	ASTM D 2979
	Température d'utilisation	-40 to 150	°C	
	Temp. d'application	10	°C	

Recommandation d'utilisation

Convient pour impression conventionnelle, et transfert thermique avec ruban combo et résine.

Ces produits sont enduits d'un adhésif haute performance de 36µ, pour une bonne transformation, s'assurer que les outils de découpe soient propres et que les machines soient bien réglées.

Recommandation de stockage

Le matériel est stable pour 2 ans dans des conditions de stockage à 21°C maximum et 50% d'humidité relative. Atmosphère humide, conditions de froid ou de chaud excessif à bannir.

Renseignements complémentaires :

Ce produit à une durée de vie en extérieur de 2 ans, dépendant du substrat sur lequel a été posée l'étiquette.

Ce produit répond aux exigences de la norme REACH/SVHC et RoHS. Une fiche IMDS est disponible à la demande.

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Ficha técnica del Producto

THERMLfilm® ADVANTAGE™ Extreme Range



Una lámina de poliéster con un top coating para impresión mediante transferencia térmica, adhesivo acrílico permanente de alto rendimiento y un soporte de papel tipo Glassine. Este producto tiene la certificación de UL (archivo MH 16635)

THERMLfilm® Advantage™ Extreme	BLANCO	PET-DWA2-9U09S/36
THERMLfilm® Advantage™ Extreme	BLANCO SATINADO 	PET-DYA1-9U09A/36
THERMLfilm® Advantage™ Extreme	BLANCO MATE 	PET-DWC2-9U09S/36
THERMLfilm® Advantage™ Extreme	PLATEADO SATINADO	PET-DUA2-9U09S/36
THERMLfilm® Advantage™ Extreme	PLATEADO MATE 	PET-DSC2-9U09S/36
THERMLfilm® Advantage™ Extreme	TRANSPARENTE	PET-DCA2-9U09S/36
THERMLfilm® Advantage™ Extreme	TRANSPARENTE SATINADO	PET-DEA2-9U09S/36
THERMLfilm® Advantage™ Extreme	TRANSPARENTE FINO (grosor diferente)	PET-BCA2-9U09S/36

THERMLfilm y Advantage son marcas comerciales registradas de Flexcon

Propiedades físicas típicas		Valor típico	Unidad	Método de prueba
PELICULA – PET	Grosor	50 (25) ± 10%	Micrones	ASTM D 3652
	Grosor	36 ± 3	Micrones	ASTM D 3652
ADHESIVO	Adhesión en:			
	Acero inoxidable	26 (19)		
	Vidrio	26 (18)		
	Polipropileno	30 (21)		
	Pintura de automóvil	30 (21)		
	PBT	31 (22)		
ADHESIVO	Rotura	100	Horas	FTM 8 (1 hora de duración sobre acero inoxidable con un peso de 2 kg)
	Adherencia de prueba	948 (850)	gram/sq cm	ASTM D 2979
	Grosor	56 ± 10%	Micrones	ASTM D 3652
ESTRUCTURA COMPLETA	Temperatura de servicio	-40 to 150	°C	
	Temperatura de aplicación	10	°C	

Impresión

Adecuado para la mayoría de tintas convencionales (tinta de disolvente, agua + UV), estampado con lámina caliente y cintas de transferencia térmica con cintas de resina/combinadas. Los productos están revestidos con un adhesivo de alto rendimiento de 36 µ de espesor. Es necesario que los troqueles estén limpios y bien ajustados para una buena conversión.

Para material transparente: el adhesivo de alto rendimiento tiene un color ligeramente amarillento, que no puede evitarse.

Recomendaciones de Almacenamiento

El material se mantiene estable por dos años si se almacena a una temperatura máxima de 21°C y una humedad relativa del 50%. Se deben evitar condiciones de humedad, calor y/o frío excesivos.

Información Adicional

La vida esperada de la película en exteriores depende de la superficie de aplicación, pero la etiqueta puede resistir al menos 2 años en exteriores.

El material cumple con los requerimientos de REACH/SVHC, RoHS. La información del IMDS está disponible bajo previa solicitud.

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