

Le film CLARIFOIL® est un film acétate de cellulose qui a obtenu la certification Home Compost, destiné aux applications de fenêtrage, de pelliculage, d'étiquette et thermoformage.

Il se décline dans une large gamme de produits d'épaisseur de 14 µm à 500 µm, il peut être coloré ou nacré et disponible en version mate ou semi-mate.

Ses principales caractéristiques et qualités en fait le matériau bio sourcé et compostable pour les applications de fenêtrage sur boîte carton, les étiquettes, le ruban adhésif, le thermoformage et le pelliculage. Il présente des caractéristiques anti-buées.

Sa résistance aux huiles, aux graisses et à l'eau ainsi que sa résistance thermique lui permettent d'être utilisé sur des produits pouvant être réchauffés aux micro-ondes.

Le film CLARIFOIL® fournit une solution respectueuse de l'environnement. Il est facteur de durabilité, fabriqué à partir d'une source renouvelable : PEFC pâte de bois certifiée. Il est biodégradable et compostable conformément aux normes, il ne contient pas d'OGM.

Typical Physical Properties :

PROPERTIES		Thickness in µ/micron
		40
Film Surface		Gloss
EVA Surface		Matt
GENERAL		
Specific Gravity		1.12
Equilibrium moisture content, % (23C and 50% RH)		circa 2%
Film Surface energy (dyn cm ⁻¹)		34-38
Film Areal Density (gm ⁻²)		44.8
YIELD (m ² /kg)		22.32
Dynamic Friction coefficient (Film surface)		0.4- 0.65
EVA coated weight, gsm		28
Copolymer content, %		14-15
MECHANICAL		
Tensile strength (Nmm ⁻²) ASTM D882	MD*	50-60
Elongation at break (%) ASTM D882	MD*	25-45
E-Modulus (Nmm ⁻²) ASTM D882		1300-1500
Tear initiation (N) ASTM D1938	MD*	0.11

Every effort has been made to ensure that this information is correct and in accordance with current knowledge. While information given describes known applications for the product, no warranty of fitness for purpose is intended.

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Tear propagation (N) ASTM D1938	MD*	0.06
THERMAL		
LINEAR SHRINKAGE % (115°C 10 mins)	MD*	1-1.5
Acetate softening temperature (°C)		~ 130
Acetate glass transition temperature (°C)		~ 120
EVA Peak Melting temperature ASTM D 3418 (°C)		~ 83
EVA Vicat softening temperature ASTM D 1525 (°C)		~ 51
CHEMICAL PROPERTIES		
Chemical resistance ASTM D543 - 87		Low resistance to Ketones; Attacked by esters, moderate to concentrated strong acid and bases. Resistant to non-polar solvents
Food contact approved		No
Din Certco EN 13432 certified		No
BPI Certified ASTM D6400		No
Vincotte OK Home Compost approved		No

CFM36 - EVA Coated Clarifoil Gloss Film

Clarifoil CFM36 film offers all the advantages of thermal lamination with an unrivalled gloss finish.

The thick coating of EVA present on the back film surface enables any imperfections in the board/film to be filled, thus allowing an attractive and solid surface finish to be achieved on both solid black colours and rougher board stocks at running speeds of up to 75 metres/minute.

The film is available at widths of up to 1260mm and a single length roll will be nominally 2400 metres long. The total gauge of the film is approximately 40µm, consisting of 20µm of film and 20µm of EVA.

Although Clarifoil can slit the film to any width that is requested, the customer is required to purchase the full width of the roll. To minimise wastage, for example, roll widths of 630mm and 440mm deckle very well together.

The film should run very well on the majority of thermal laminating machines and a processing temperature of 90-100°C and speed of 40 metres/min represent good starting conditions. As experience builds, processing speeds of up to 75 metres/min should be possible depending on the particular laminating machine in question.

For over printing and spot varnishing, especially with UV curing systems, it may be advisable to use primers and/or over varnishes to ensure individual performance requirements are achieved. Clarifoil film accepts foil blocking well. In all cases, customers should carry out careful testing to ensure the film performs satisfactorily with their particular process and materials.

The CFM36 EVA coated Clarifoil film can be supplied with the coating surface wound to the inside of the roll supplied, typically wound onto 76.2mm (3") internal core diameter. Full width rolls can also be supplied on 6" cores.

MD* = machine direction