



# Product Information Platilon® H

## Thermoplastic Adhesive Films

### Typical Properties

Basic Material			Co-Polyamide	Polyurethane (Ester)	Co-Polyester
Grade			H 2	HU 2	H 5
Properties	Standards/ Procedures	Units			
Density	calculated	g/cm <sup>3</sup>	1,10 <sup>1)</sup>	1,16 <sup>1)</sup>	1,27 <sup>1)</sup>
Softening range	TMA Onset	° C	≥ 100	≥ 75	≥ 120
	Kofler bench Knife	° C	105 - 120	90 - 110	105 - 120
Temperature stability	empirical	° C	≤ 110	≤ 60 <sup>2)</sup>	≤ 90
Appearance	visual	-	transparent	translucent	translucent
Resistance to plasticizer	empirical	-	very good	good	good
Barrier to plasticizer	empirical	-	yes	no	no
Laundry stability	empirical	° C	≤ 60	≤ 40	≤ 80
Chemical dry cleaning	empirical	-	good	limited	good
HF-weldability	empirical	-	very good	very good	good
Proposed glue line temperature	empirical	° C	130	110	140
Biobased Carbon-Content	ASTM D 6866:2008	%	35 – 39 <sup>3)</sup>	-----	-----

<sup>1)</sup> Calculated based on information by raw material suppliers and the film's composition.

<sup>2)</sup> For short term temperature load on flat surfaces: 100 – 120°C

<sup>3)</sup> Values calculated based on supplier data and own verification measurements, dependent on film thickness.

## Film Formats

Grade	Max. Width (mm)	Weight per area (g/m <sup>2</sup> )	Colour	Carrier/Release film (PE)
H 2	2100 <sup>4)</sup>	25 - 200	natural	yes <sup>5)</sup>
HU 2	2100 <sup>4)</sup>	25 - 200	natural	yes
H 5	2100 <sup>4)</sup>	25 - 110	natural	yes <sup>5)</sup>

<sup>4)</sup> Limitations depending on weight per area.

<sup>5)</sup> Carrier can be separated upon request at additional charge.

Regarding thickness and width, certain interdependencies may apply. Please consult with your customer service representative. Blown film may show an orientation in either machine or cross direction. MD/CD values may vary depending on thickness and width. Our "General Conditions of Sale" also apply.

### Product Description

Platilon® H is the trade name for thermoplastic adhesive films made by Covestro Film GmbH Films. The range currently includes films based on:

- copolyamide
- thermoplastic polyurethane
- copolyester

### Properties

Platilon® H films combine excellent adhesion properties and easy processability with outstanding mechanical and chemical properties:

- Platilon® H2 includes a partially bio-based raw material content.
- good resistance to detergents
- high resistance to greases, oils and fuels

### Applications

The broad raw material range of Platilon® H allows excellent bonding to various substrates. Bonding applications include:

- automotive industry: for example interior parts and sound protection
- insulation industry
- wallpaper industry
- home textiles
- non wovens and foams

### Processing

The films may be heat activated by:

- infra-red systems
- flat-bed lamination
- heat and pressure calender
- ultrasonic, thermal impulse and HF-welding

### Advantages over other adhesive systems

- thermoplastic → no crosslinking, no pot life limitation
- economical processing
- exact thickness of adhesive layer
- free of plasticizers and solvents
- easy storage
- good environmental performance

The values provided within this Product Information are typical values only. Unless explicitly agreed in written form, they do not constitute a binding material specification or warranted values. Values may be affected by thickness and packaging, the processing conditions, coloring/pigmentation and additives of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature. The values represent the data set describing the general property profile of a certain product. They are for example not always part of the batch release procedure and therefore not subject of a regular quality specification underlying a statistical evaluation.

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1) Please see the "Guidance on Use of Covestro Products in a Medical Application" document. For more information on Covestro products in Medical Applications, please request from your sales support contact our Guidance document: GUIDANCE ON USE OF COVESTRO PRODUCTS IN A MEDICAL APPLICATION.

