Product Information
Platilon® ID 5021

Film based on thermoplastic polyether polyurethane
Colour: natural, translucent
Special characteristic: for ID-Card applications

Typical Properties

Property		Standard / Procedure	Unit	Value
Density		calculated	g/cm³	1,15 [1)]
Hardness		DIN 7619-1, DIN EN ISO 868 or ASTM D2240	Shore A	87 [2)]
Softening Range		TMA Onset – Endset internal method	°C	155 - 185
Tensile stress at break	MD	DIN EN ISO 527	MPa	65 [3)]
	CD			65 [3)]
Tensile stress at 50% strain	MD			5 - 7
	CD			5 - 7
Tensile strain at break	MD		%	550 [3)]
	CD			550 [3)]
Tear propagation resistance	MD	DIN ISO 34-1, B	kN/m	60 [3)]
	CD			60 [3)]

These data are provided as general information only. They are approximate values and not intended for use in preparing specifications! Please contact us before writing specifications on this product.

1) Calculated based on information by raw material suppliers and the film's composition.
2) Based on data for the TPU resins provided by their suppliers and based on suppliers standard/procedure, not measured for film sample.
3) Blown films may be orientated to a different degree depending on film thickness. The above mentioned values have been measured and averaged over a long period. The average values from single productions can vary up to 30 % subject to thickness, width and orientation.

Platilon®

Typical Film Dimensions

Thickness	**(µm)**	50 - 250
Width	**(mm)**	1000 - 2050

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.

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Liability Clauses

General
The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Covestro.
Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent.

Trial products „VPT“ and „LPT“
Products with the designation „VPT“ or „LPT“ are sold as trial stage or developmental stage products, respectively. Further information, including amended or supplementary data on hazards associated with its use, may becompiled in the future. For this reason no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser/user uses the product entirely at his own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damages, of whatever nature, arising out of such use. Commercialization and continued supply of this material are not assured. Its supply may be discontinued at any time.

Typical value
These values 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 the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

Test specimens - Reference data
Unless specified to the contrary, the values given have been established on standardised test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mould/die, the processing conditions and the colouring.

Medical
The customer must not use or resell Covestro products for the use and application in the food, medical or pharmaceutical sector, unless the respective products have explicitly been approved for the application in these sectors. If the intended use of the product is for the manufacture of a medical device or of intermediate products for medical devices, Covestro must be contacted in advance to provide its agreement to sell such product for such purpose.Nonetheless, any determination as to whether a product is appropriate for use in a medical device or intermediate products for medical devices, must be made solely by the purchaser of the product without relying upon any representations by Covestro. For more information on Covestro products in Medical Applications, please request from your sales

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Personally Liable Partner
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Sitz der Gesellschaft
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Thomas Kleßmann

support contact our Guidance document: GUIDANCE ON USE OF COVESTRO PRODUCTS IN A MEDICAL APPLICATION.

Responsibility of the manufacturer of the medical device
As regards the production conditions of the processor of our material which are not known to us, it is the responsibility of the processor to ascertain the suitability of our materials in the finished product in terms of directives and statutes to be observed.

The suitability of our materials also depends on the ambient conditions (see below) for the finished product
Chemical compatibility, temperature, design of the medical article, method of sterilisation, internal stress within the finished article, and external stress all influence suitability, and are therefore the responsibility of the processor and the manufacturer of the finished product.

Multiple-use of medical articles
Medical articles which are intended for single use and which were manufactured from our films are not suitable for multiple use. If the medical article was manufactured for multiple use, it is the responsibility of the manufacturer of the finished product to determine an appropriate number of times it may be used, by determining and evaluating the conditions of sterilisation and final use. Appropriate warnings and instructions must be given to the final user.

Sterilisation
The use of various methods of sterilisation and the permitted number of sterilisation cycles for a medical article which is made from our materials depend on the design of the parts, the processing parameters, the sterilisation temperature and the chemical environment. Therefore the manufacturer must determine and evaluate the most suitable method of sterilisation (and if applicable the permitted number of sterilisation cycles) for each medical article. Appropriate instructions and warnings must be given to the final user.

Singular tests
In order to demonstrate characteristic properties, data may be generated in special tests which were performed possibly only once. Such data are typically provided with the indentification of the specific roll (lot) number. These data are not considered as general information, nor are they an indication of minimum values. They are not part of the product specifications.

General conditions of sale
Our „General Conditions of Sale“ also apply.

Technical advice
Our technical advice –whether verbal, in writing or by way of trials – is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. It does not release you from the obligation to test products supplied by us as to their suitability for the intended processes and uses. The application, use, and processing of the products are beyond our control, and therefore, entirely your own responsibility.