

Atmungsaktive Membranen | *Breathable Elastomer Films***Typische Eigenschaften**

Basic Material			Polyurethane			Polyether-Blockamide
Grade			2202 AC	2204 AC	U073	M2234
Property	Standard/Procedure	Unit				
Density*	calculated	g/cm ³	1,25	1,26	1,12	1,05
Softening range	TMA Onset –Endset internal method	°C	155 - 180	160 - 180	160 - 200	165 - 175
Hardness*	DIN 53505	Shore A	82	90	87	90
Tensile stress at break**	DIN EN ISO 527	MPa	25	35	55	55
Trensil strain at break**	DIN EN ISO 527	%	650	500	600	700
Water vapour transmission****	DIN 53122 38 °C/90% r.H.	g/(m ² *d)	4500	3000	2000	5000
Dry cleaning	empirical	-	ja	ja	ja	ja
Laundry stability	empirical	°C	≤ 95	≤ 95	≤ 95	≤ 60
Carrier film (PE)			ja	ja***	ja	nein

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.

- * Data related to base resin, as figures cannot be accurately determined for film. They are intended for informational purposes only.
- ** Data are approximate. Average values for specific orders might vary from the data indications given above. Due to the orientation (see below) average results for specific orders might be up to 30% lower.
- *** Thickness ≥ 0,025mm available without PE-layer.
- **** Values were determined at 0,015mm film.

Film formats

Thickness	(mm)	0,015 (heavier film upon request)
Width	(mm)	1.600 (other width upon request)
Colours (standard)		natural (colours upon request)

Our "General Conditions of Sale" also apply.

Release 2011/ 05

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.

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epurex films

A  Bayer MaterialScience Company

Platilon® M

Atmungsaktive Membranen | *Breathable Elastomer Films*

Product description

Platilon® M is the trade name for breathable elastomer films made by Epurex Films. The range currently comprises films based on thermoplastic Polyetherpolyurethanes and Polyether-Co-Polyamides.

Properties

Platilon® M films are known for the following properties:

- high flexibility/ elasticity over a wide temperature range down to -50° C
- wind tightness and waterproof but still high water vapour permeability
- low noise
- good textile haptic
- resistance to laundering and dry cleaning
- good chemical and mechanical resistance
- free of plasticiser
- good adhesion to a many adhesives and reaction foams

Applications

The broad range of properties make Platilon® M films particularly suitable for use as functional layers in composites:

- sportswear, leisure wear and rainwear garments
- workplace and safety apparel
- shoes and gloves
- technical composites for the automotive industry
- medical devices such as wound dressings, mattress covers

Processing

Suitable processes for lamination are:

- flame bonding
- back-foaming
- adhesive lamination by using e. g.:
 - hotmelt powders and pastes
 - bonding nets and fleeces
 - spray adhesives

processing e. g.:

- foam coating
- spray coating
- powder dot
- melt print
- screen print

Unsere anwendungstechnische Beratung in Wort, Schrift und durch Versuche erfolgt nach bestem Wissen, gilt jedoch nur als unverbindlicher Hinweis, auch in Bezug auf etwaige Schutzrechte Dritter und befreit Sie nicht von der eigenen Prüfung der von uns gelieferten Produkte auf ihre Eignung für die beabsichtigten Verfahren und Zwecke. Anwendung, Verwendung und Verarbeitung der Produkte erfolgen außerhalb unserer Kontrollmöglichkeiten und liegen daher ausschließlich in Ihrem Verantwortungsbereich.

Liability clauses

Sales products

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information currently provided - especially that contained in our safety data and technical information sheets- and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery.

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 be compiled 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.

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

Epurex films products should not be used for long-term applications or with long-term contact with endogenous substances (body fluids).

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 identification 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

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