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To the  
Business Partners  
of IMC GmbH

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Ihr Zeichen

Ihr Brief

Unser Zeichen

Datum

JL/ma

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## PRODUCT INTRODUCTION

### ULTRA DOT ECO – PERFECT DOT UV-F – PERFECT DOT STRIP

Dear Sirs,

We are glad to be able to present you some of our new developments of PERFECT DOT brand, which are now available from middle of September / beginning of October 2013 on.

While the new design of ULTRA DOT ECO is addressed and positioned to all very price-minded printers, PERFECT DOT UV-F and PERFECT DOT STRIP are representing the ideal supplements to our PERFECT DOT portfolio.

The **main advantages** and key words of our new products as follows:

#### **ULTRA DOT ECO**

- Improved tensile strength
- Good solids and halftones
- High reduction of pressure marks (streaks)
- Excellent smash resistance
- Minimized gauge loss
- Extended lifetime
- Top value for money

PLEASE NOTE! In general its necessary to keep in mind, that the gauge loss of 2-ply blankets is considerably reduced and has an average value of 0,02 mm only. Therefore, printers who previously used 3- or 4-ply blankets and calculated with a gauge loss of 0,04 - 0,05 mm, have to consider this changes in order to avoid overprint and consequently differences in the register.

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Sitz der Gesellschaft Mühlheim am Main  
Amtsgericht Offenbach a. M.  
HRB 38 65  
Geschäftsführer Joachim Landgraf



I.M.C. GmbH  
Marketing für die  
graphische Industrie

### PERFECT DOT UV-F

Since 2008 we successfully introduced PERFECT DOT UV, which is focused on UV-applications in the packaging industry on absorbent substrates (carton, paper etc.), while achieving even and excellent solids as well as good dot sharpness.

However, many of our customers are requesting an even better dot sharpness with good solid printing in particular on non-absorbent substrates. By introducing the new PERFECT DOT UV-F these ambitious requirements could be realized, as the blanket provides the printer with very good printing results on foil, plastic and metal. Further **users' advantages** are:

- Excellent dot sharpness and good solids
- Very good ink transfer
- Outstanding swell and solvent resistant
- High resistance against smash and edge marks
- Easy to clean
- Extended lifetime
- Wide range of non-absorbent substrates, e. g. foil, plastic, CD, metal

### PERFECT DOT STRIP

Due to the demand of our customers, PERFECT DOT is now offering as well a strippable blanket for spot varnishing applications. The stencil depth of 0,9 mm is in an optimal range for almost all varnishing jobs and provides an excellent varnish transfer with precise sealed areas.

Additional **users' advantages** are as follows:

- Excellent varnish transfer
- Even thicknesses
- Precise sealed areas
- Optimal varnish gloss on various substrates
- Easy peel-off
- Reduced varnish build-up
- Long running periods.

Hoping very much, that these new products will support you, to serve your customers more intensively or to gain new printers for PERFECT DOT / ULTRA DOT high quality blankets. We are most happy to receive your inquiries regarding prices and all further information.

Wishing good sales success, we remain  
with best regards

IMC GmbH  
Marketing für die graphische Industrie

J. Landgraf



# Perfect Dot® MR

The increased speed of the new generation of sheet-fed and web offset machines demands a new quality of printing blanket with optimum compressibility and good damping characteristics.

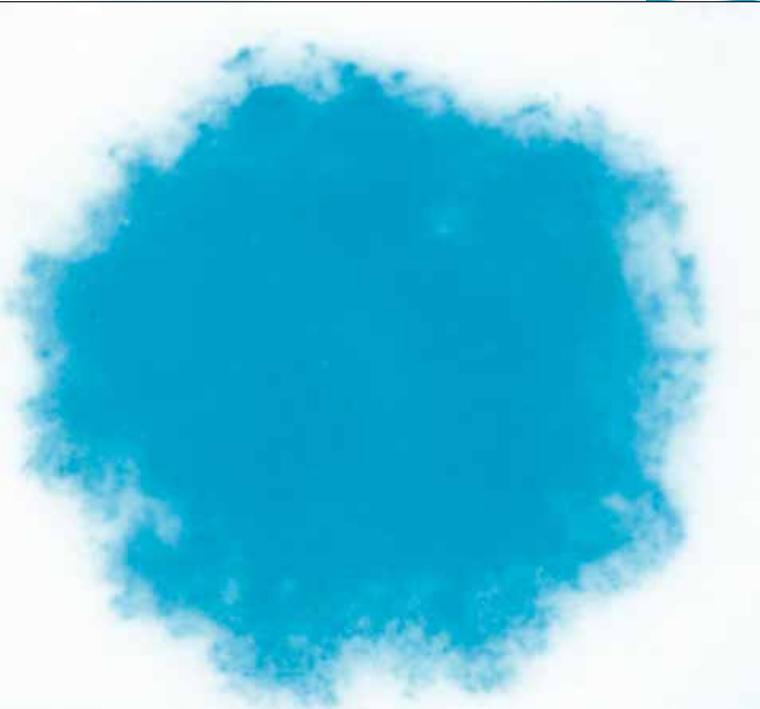
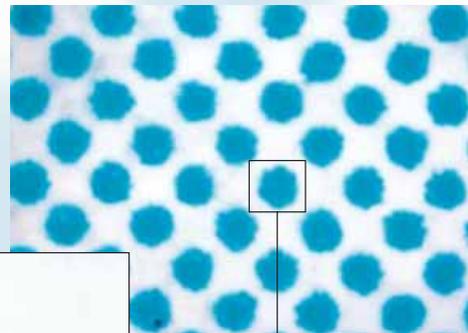
Aiming for the above mentioned goals Perfect Dot® MR (**Max. Rotation**) was developed. In streak test diagrams a positive effect can be proved.

In addition Perfect Dot® MR has been successfully applied to print on corrugated carton. Under these conditions Perfect Dot® MR adapts superbly to the impression forces in the nip. Therefore it is possible to print on G- and F-flute while the favourable ink transfer allows a good printing result, regardless of the differences in the structure of the carton. Perfect Dot® MR is therefore highly focussed on the special demands of such kind of stocks.

For the general application Perfect Dot® MR is suitable for printing on paper and carton. Due to the good damping characteristics very good print results can be achieved on older web offset machines. It also shows a reduction in cylinder gap marks in this application.

### Users' advantages

- Optimal sheet rotation
- Minimized cylinder gap marks
- Controlled dot gain
- Excellent solids



Dot reproduction  
Perfect Dot® 4-MR

### Product data Perfect Dot® MR

Parameter	Test method	Measuring unit	typ. Value	
			4-MR	3-MR
<b>Surface roughness</b>	DIN 4768			
■ Ra	mechanical measuring system	µm	0.6	0.6
■ Rz	mechanical measuring system	µm	4.5	4.5
<b>Hardness</b>	DIN 53505			
■ Top layer		IRHD-micro	62	62
■ Total		Shore-A	80	80
<b>Thickness</b>	ISO 4593:1993	mm	1.95	1.70
<b>Tensile strength</b>		N/50 mm	>4000	>4000
<b>Stretch</b>	ISO 12636-4.2			
■ at 500 N/50 mm		%	0.8	0.7
■ at 1000 N/50 mm		%	1.5	1.0
<b>Compressibility</b>	ISO 12636-4.5			
■ 1 <sup>st</sup> cycle		%	7.70	8.60
■ 5 <sup>th</sup> cycle		%	8.10	9.25
<b>Printing pressure</b>				
■ at 0.10 mm impression		N/cm <sup>2</sup>	88	95
■ at 0.20 mm impression		N/cm <sup>2</sup>	173	170

Colour of top layer: **blue**

Surface: finest grinding

# Perfect Dot® MX

Perfect Dot® MX was launched to the industry at Drupa 1990, and has been constantly modified over the years according to the changing requirements of high quality sheetfed printing.

Due to its good ink transfer properties, excellent dot sharpness and a controlled dot gain in the mid-tones Perfect Dot® MX succeeded with printing machine manufactures and leading printing plants all around the world.

The base for these properties is the selection of specially produced fabrics and a compressible layer with closed micro-structure.

Experts appreciate these quality characteristics.

## Users' advantages

- Optimal ink transfer
- Controlled dot gain
- High quality solids
- Low sinkage factor
- Premium quality

## Range of application

- In conventional high quality sheetfed:  
for paper and for premium carton



Surface structure  
Perfect Dot® 4-MX

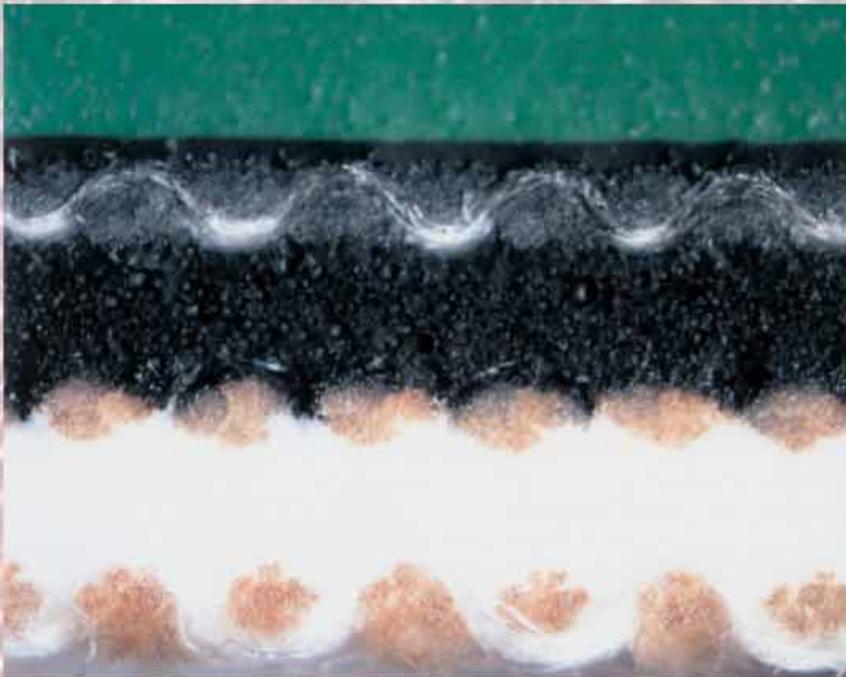
## Product data Perfect Dot® MX

Parameter	Test method	Measuring unit	typ. Value
<b>Surface roughness</b>   DIN 4768			
■ Ra	mechanical measuring system	µm	0.6
■ Rz	mechanical measuring system	µm	4.0
<b>Hardness</b>   DIN 53505			
■ Top layer		IRHD-micro	65
■ Total		Shore-A	80
<b>Thickness</b>   ISO 4593:1993			
		mm	1.95
<b>Tensile strength</b>			N/50 mm >4000
<b>Stretch</b>   ISO 12636-4.2			
■ at 500 N/50 mm		%	0.8
■ at 1000 N/50 mm		%	1.4
<b>Compressibility</b>   ISO 12636-4.5			
■ 1 <sup>st</sup> cycle		%	9.0
■ 5 <sup>th</sup> cycle		%	9.3
<b>Printing pressure</b>			
■ at 0.10 mm impression		N/cm <sup>2</sup>	77
■ at 0.20 mm impression		N/cm <sup>2</sup>	142

Colour of top layer: **green**

Surface: finest grinding

# Perfect Dot® DL



Cross cut of the 3-ply  
Perfect Dot® DL

In response to aggressive market competition the request was made to produce a blanket with three fabric layers in a thickness of 1,95 mm.

In order to serve this market segment Perfect Dot® DL (**Drei**Lagig = 3-ply) was developed.

This blanket is now regarded as the "Allround" version of the Perfect Dot® qualities.

Apart from a fine ground surface and a micro-porous layer with closed cells this blanket uses a low stretch carcass with three fabric layers to ensure stable cylinder dressing.

Perfect Dot® DL achieves optimal printing results across a wide range of materials and fulfills the actual market requirements.

## Users' advantages

- Good dot sharpness
- Full ink coverage
- Good resistance to solvents
- Reduced carton edge marks
- "Allround" capabilities

## Range of application

- In conventional sheetfed:  
for paper and carton

## Product data Perfect Dot® DL

Parameter	Test method	Measuring unit	typ. Value
<b>Surface roughness</b>			
DIN 4768			
■ Ra	mechanical measuring system	µm	0.7
■ Rz	mechanical measuring system	µm	5.0
<b>Hardness</b>			
DIN 53505			
■ Top layer		IRHD-micro	66
■ Total		Shore-A	80
<b>Thickness</b>			
ISO 4593:1993		mm	1.95
<b>Tensile strength</b>			N/50 mm >4000
<b>Stretch</b>			
ISO 12636-4.2			
■ at 500 N/50 mm		%	1.0
■ at 1000 N/50 mm		%	1.8
<b>Compressibility</b>			
ISO 12636-4.5			
■ 1 <sup>st</sup> cycle		%	7.5
■ 5 <sup>th</sup> cycle		%	7.8
<b>Printing pressure</b>			
■ at 0.10 mm impression		N/cm <sup>2</sup>	90
■ at 0.20 mm impression		N/cm <sup>2</sup>	185

Colour of top layer: **green**

Surface: finest grinding

# Ultra Dot<sup>®</sup> ECO

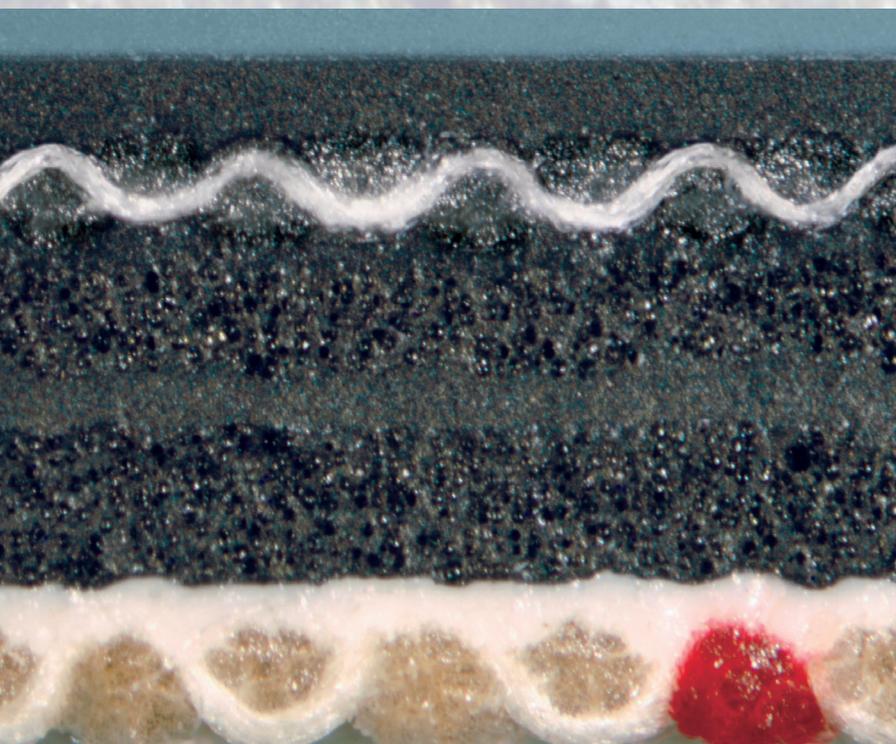
With the introduction of the new Ultra Dot<sup>®</sup> ECO we have succeeded in making the innovative and successful concept of **Dual-Air-Technology** – i.e. two fabric layers and the characteristic two compressible layers – even more attractive.

Ultra Dot<sup>®</sup> ECO obtains good printing results on paper, carton, various recycled stocks and on metal decorating. The ground breaking design involving two compressible layers offers the printer good solids whilst simultaneously reducing streaks. Durability is also greatly extended. Low gauge loss, as a result of the special blanket design is an useful benefit for many customers.

Ultra Dot<sup>®</sup> ECO provides printer in the sheetfed printing as well as in metal decorating with a good quality printing blanket at an excellent price-performance ratio. Consequently it is the ideal, competitively priced introduction for new customers to our range of high quality printing blankets.

### Users' advantages

- **Good solids and halftones and high reduction of pressure marks (streaks)**
- **Excellent smash resistance**
- **Minimized gauge loss**
- **Extended lifetime**
- **Value for money**



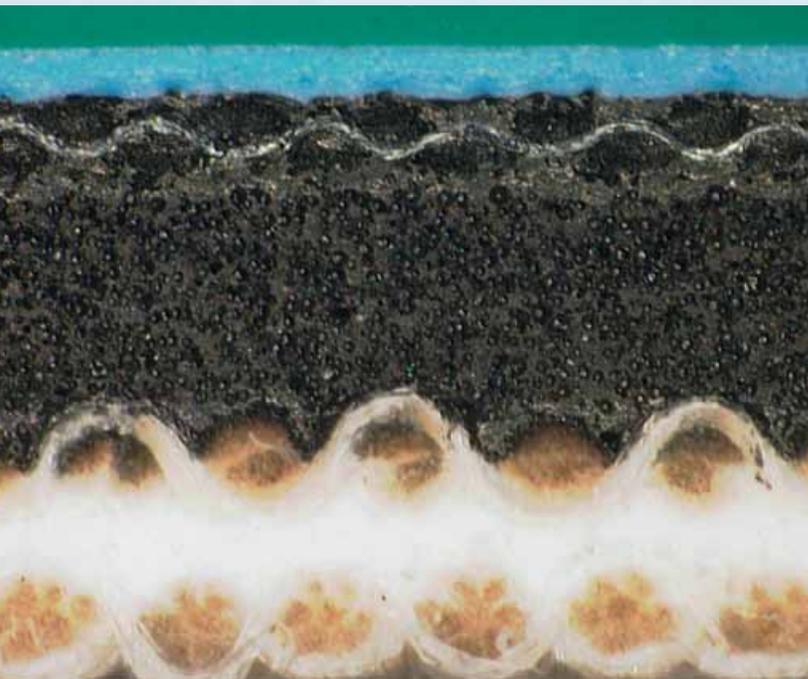
Cross cut of the 2-ply Ultra Dot<sup>®</sup> ECO

### Product data Ultra Dot<sup>®</sup> ECO

Parameter	Test method	Measuring unit	Value
<b>Surface roughness</b>   DIN 4768			
■ Ra	mechanical measuring system	µm	1.8
■ Rz	mechanical measuring system	µm	7.0
<b>Hardness</b>   DIN 53505			
■ top layer		IRHD-micro	62
■ total		Shore-A	83
<b>Thickness</b>   ISO 4593:1993			
		mm	1.95
<b>Tensile strength</b>   N/50 mm			
			>3000
<b>Stretch</b>   ISO 12636-4.2			
■ at 500 N/50 mm		%	0.81
■ at 1.000 N/50 mm		%	1.56
<b>Compressibility</b>   ISO 12636-4.5			
■ 1 <sup>st</sup> cycle		%	7.0
■ 5 <sup>th</sup> cycle		%	7.5
<b>Printing pressure</b>			
■ at 0.10 mm impression		N/cm <sup>2</sup>	92
■ at 0.20 mm impression		N/cm <sup>2</sup>	157
<b>Resistance</b>			
■ against Toluol/Petrolbenzin (20:80)		%	4.6
■ against Varn V 60		%	1.8
■ against Solstar 7000		%	< 1

**Colour of top layer:** petrol  
**Surface:** fine grinding  
**Number of plies:** 2

# Perfect Dot® QR



Cross cut of the 3-ply Perfect Dot® QR

Perfect Dot® QR represents the further development of the well known Perfect Dot® SR.

The improved quality contains an innovative compressible layer, manufactured utilising our new **Dura-Elastic-Technology**. With this feature the running temperature of the blankets is reduced resulting in enhanced ink transfer and dot reproduction with extended lifetime of the blanket.

The finely ground surface produces an excellent printing image. The barrier layer within the double surface layer prevents the penetration of solvents and other chemicals thus reducing swelling.

## Users' advantages

- True reproduction of the original copy
- Highest machine running speed
- Minimized gauge loss
- Extended lifetime
- Excellent easy clean features
- Wide range of application
- Reduced running temperature

## Range of application

- In conventional sheetfed: for paper and carton
- In UV printing, DI and waterless: for carton and foil

## Product data Perfect Dot® QR

Parameter	Test method	Measuring unit	typ. Value
<b>Surface roughness</b>			
DIN 4768			
■ Ra	mechanical measuring system	µm	0.88
■ Rz	mechanical measuring system	µm	5.2
<b>Hardness</b>			
DIN 53505			
■ Top layer		IRHD-micro	66
■ Total		Shore-A	81
<b>Thickness</b>			
ISO 4593:1993			
		mm	1.95
<b>Tensile strength</b>			
			N/50 mm >4000
<b>Stretch</b>			
ISO 12636-4.2			
■ at 500 N/50 mm		%	0.76
■ at 1000 N/50 mm		%	1.07
<b>Compressibility</b>			
ISO 12636-4.5			
■ 1 <sup>st</sup> cycle		%	7.0
■ 5 <sup>th</sup> cycle		%	7.6
<b>Printing pressure</b>			
■ at 0.10 mm impression		N/cm <sup>2</sup>	100
■ at 0.20 mm impression		N/cm <sup>2</sup>	180

Colour of top layer: **green**

Surface: finest grinding

# Perfect Dot® STRIP

Perfect Dot® STRIP is a modern varnishing and spot varnishing blanket, which delivers excellent results using aqueous or partly UV coatings. It offers the printer a very good varnish transfer with even thicknesses.

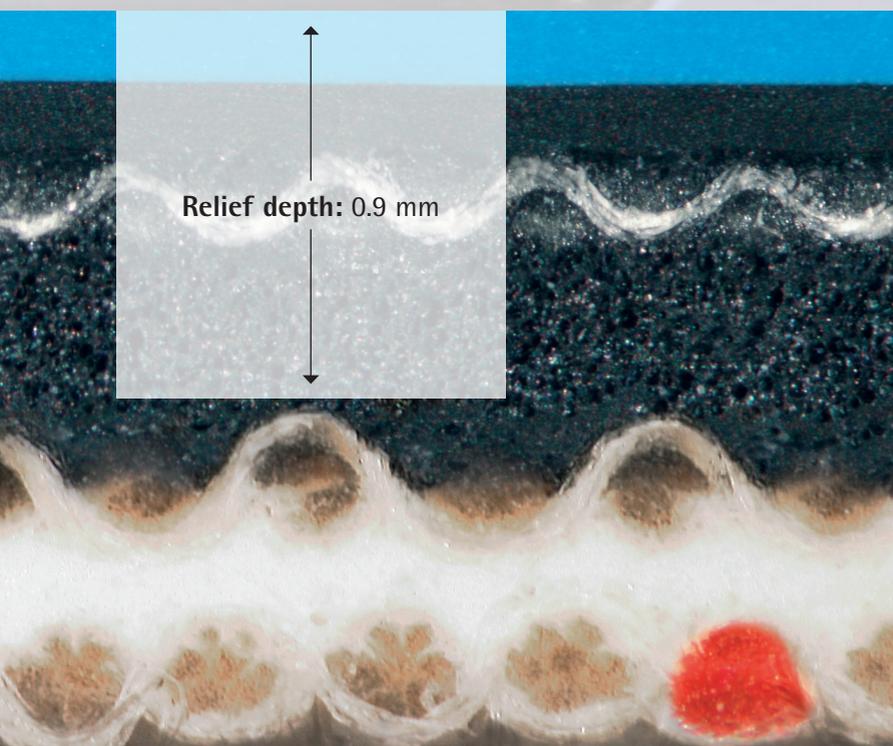
Due to its special top surface layer, it delivers as well an optimal varnish gloss on various substrates with precise sealed areas.

Perfect Dot® STRIP has a perfect stripping relief, which surface is easy and quick to be peeled off for a fast and trouble-free preparation. The stencil depth of 0.9 mm reduces varnish build-up in the relief area for a cleaner profile and a longer running period.

It provides the user with a very good dimensional stability for reuse on repeating jobs and can be perfectly cut by using both, plotter or scalpel.

## User's advantages

- Excellent varnish transfer
- Even thicknesses
- Precise sealed areas
- Optimal varnish gloss on various substrates
- Easy peel-off
- Reduced varnish build-up
- Long running periods



Cross cut of the 3-ply Perfect Dot® STRIP

## Product data Perfect Dot® STRIP

Parameter	Test method	Measuring unit	Value
<b>Surface roughness</b>	DIN 4768		
■ Ra	mechanical measuring system	µm	0.9
■ Rz	mechanical measuring system	µm	4.0
<b>Hardness</b>	DIN 53505		
■ top layer		IRHD-micro	58
■ total		Shore-A	78
<b>Thickness</b>	ISO 4593:1993	mm	1.95
<b>Tensile strength</b>		N/50 mm	>4000
<b>Stretch</b>	ISO 12636-4.2		
■ at 500 N/50 mm		%	0.66
■ at 1.000 N/50 mm		%	1.03
<b>Compressibility</b>	ISO 12636-4.5		
■ 1 <sup>st</sup> cycle		%	6.6
■ 5 <sup>th</sup> cycle		%	7.1
<b>Printing pressure</b>			
■ at 0.10 mm impression		N/cm <sup>2</sup>	105
■ at 0.20 mm impression		N/cm <sup>2</sup>	175
<b>Resistance</b>			
■ against Toluol/Petrolbenzin (20:80)		%	5.1
■ against Varn V 60		%	1.5
■ against Solstar 7000		%	< 1

Colour of top layer: blue

Surface: finest grinding

Number of plies: 3

Relief depth: 0.9 mm

# Perfect Dot® TP

Perfect Dot® TP – the **most** innovative blanket available today for offset presses – TP comprises of a 1.95 mm blanket, with two fabric layers and **two** compressible layers.

Perfect Dot® TP's unique construction enables the introduction of two compressible layers to produce optimum performance for the printing of good solids and the reduction of pressure lines which often occur with solids. With TP's new design it is now possible to utilise **Dual-Air-Technology** without compromising either feature.

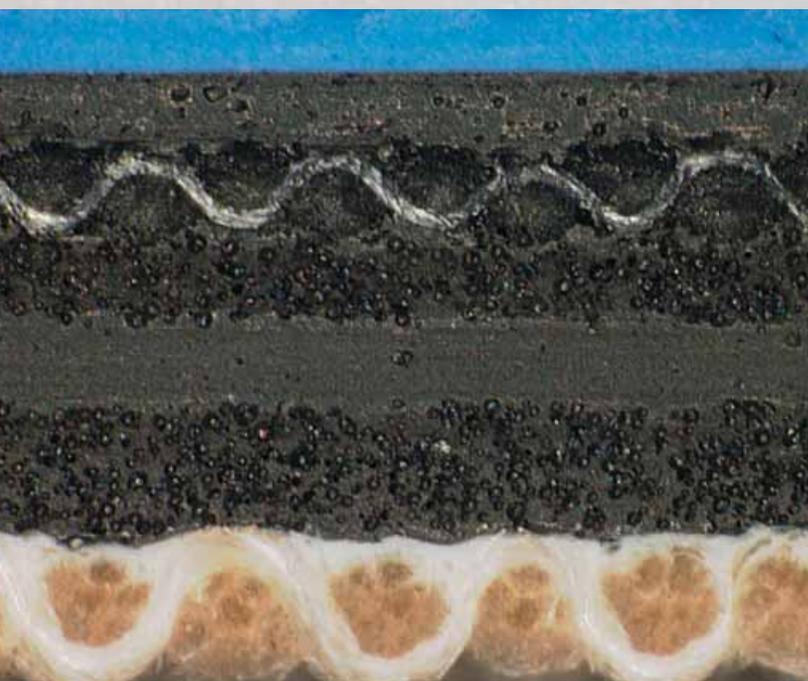
Extensive research led to the development of a blanket that employs two compressible layers and two fabric layers into one carcass.

The first compressible layer produces exceptional printing quality with solids and halftones while the second compressible layer reduces visible pressure lines and provides exceptional smash recovery leading to extended life time of the blanket.

Perfect Dot® TP is suitable for printing on both paper (especially recycled paper) and carton.

### Users' advantages

- **Good solids and halftones and**
- **High reduction of pressure marks (streaks)**
- **Excellent smash resistance and recovery**
- **Low gauge loss on cylinder**
- **Extended lifetime**



Cross cut of the 2-ply Perfect Dot® TP

## Product data Perfect Dot® TP

Parameter	Test method	Measuring unit	typ. Value
<b>Surface roughness</b>			
DIN 4768			
■ Ra	mechanical measuring system	µm	1.12
■ Rz	mechanical measuring system	µm	5.42
<b>Hardness</b>			
DIN 53505			
■ Top layer		IRHD-micro	55
■ Total		Shore-A	78
<b>Thickness</b>			
ISO 4593:1993		mm	1.95
<b>Tensile strength</b>			
		N/50 mm	>3000
<b>Stretch</b>			
ISO 12636-4.2			
■ at 500 N/50 mm		%	1.2
■ at 1000 N/50 mm		%	1.6
<b>Compressibility</b>			
ISO 12636-4.5			
■ 1 <sup>st</sup> cycle		%	7.8
■ 5 <sup>th</sup> cycle		%	8.5
<b>Printing pressure</b>			
		N/cm <sup>2</sup>	
■ at 0.10 mm impression			95
■ at 0.20 mm impression			152

Colour of top layer: **blue**

Surface: finest grinding

## Perfect Dot® UV

Packaging / Paper / Carton

The approved Perfect Dot® UV is a dedicated EPDM printing blanket, which is offering beside excellent solids and good halftones, a superb ink transfer when using modern pure UV-inks.

Perfect Dot® UV utilises a special surface layer with outstanding swell and solvent resistance properties. It is easy to clean and provides an excellent lifetime on the press.

Low gauge loss behaviour during the whole lifetime is another advantage of the new Perfect Dot® UV. An outstanding resistance against smashes and edge marks results from the especially thick compressible layers.

### Users' advantages

- Excellent solids and good dot sharpness
- Very good ink transfer
- High swell and solvent resistance
- Outstanding resistance to smash and edge marks
- Low gauge loss
- Extended lifetime
- Easy to clean
- Wide range of absorbent substrates, e.g. carton, paper

## Perfect Dot® UV-F

Foil / Plastic / CD / Metal

Perfect Dot® UV-F is particularly designed for UV-application on non-absorbent substrates, while the printer is asking for the best dot sharpness.

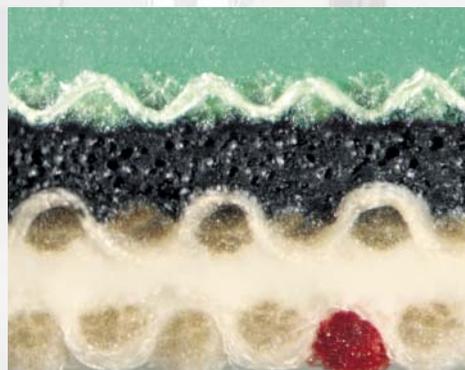
It contains a special surface layer for printing on rigid and hard materials, which supplies excellent dot sharpness and good solids at the same time and which is optimally qualified for printing on foils, plastic and metal.

### Users' advantages

- Excellent dot sharpness and good solids
- Very good ink transfer
- High swell and solvent resistance
- Outstanding resistance to smash and edge marks
- Low gauge loss
- Extended lifetime
- Easy to clean
- Wide range of non-absorbent substrates, e.g. foil, plastic, metal



Cross cut of the 2-ply Perfect Dot® UV



Cross cut of the 3-ply Perfect Dot® UV-F

### Product data Perfect Dot® UV and UV-F

Parameter	Test method	Measuring unit	Value	
			UV	UV-F
<b>Surface roughness</b>	DIN 4768			
■ Ra	mechanical measuring system	µm	0.97	1.3
■ Rz	mechanical measuring system	µm	4.32	5.6
<b>Hardness</b>	DIN 53505			
■ top layer		IRHD-micro	56	60
■ total		Shore-A	79	80
<b>Thickness</b>	ISO 4593:1993	mm	1.95	1.95
<b>Tensile strength</b>		N/50 mm	>3100	>4000
<b>Stretch</b>	ISO 12636-4.2			
■ at 500 N/50 mm		%	1.0	0.67
■ at 1.000 N/50 mm		%	1.38	1.14
<b>Compressibility</b>	ISO 12636-4.5			
■ 1 <sup>st</sup> cycle		%	5.4	7.0
■ 5 <sup>th</sup> cycle		%	5.9	7.2
<b>Printing pressure</b>				
■ at 0.10 mm impression		N/cm <sup>2</sup>	120	100
■ at 0.20 mm impression		N/cm <sup>2</sup>	224	237
<b>Resistance</b>				
■ against Varn UV Wash		%	1.0	1.0

Colour of top layer: **green**

Surface: finest grinding

Number of plies: 2 (UV), 3 (UV-F)