

**SIMONA**



**frisylen<sup>®</sup>**

**frisylen<sup>®</sup> Cutting Pads**  
Top-quality plastic pads for die-cutting

GLOBAL THERMOPLASTIC SOLUTIONS

# frisylen® Cutting Pads – for all die-cutting applications



Throughout the world, the **frisylen® brand stands for efficient die-cutting of all types of material. frisylen® pads are available in various degrees of hardness – always completely free of bubbles. Their high impact strength allows perfect and neat die-cutting with low wear.**

## Fields of application

- Paper, leather, textiles
- Upholstered furniture
- Sports equipment
- Footwear
- Gaskets
- Orthopaedics
- Packaging
- Foam plastic

## Suitable for use on

- Bridge die-cutting machines
- Automatic die-cutting machines
- Contact die-cutting tools
- Rotary cutting machines
- For all cutter dies such as steel-rule cutters, forged dies and steel-rule dies

## Excellent properties

- Extremely low stress
- High impact resistance
- Dimensionally stable at different Shore hardness levels
- Low thickness tolerances due to planed surfaces
- Resistant to chemicals
- Normal flammability
- High efficiency

## How to ensure a long service life

- Ideally, turn pad over daily
- Store horizontally to prevent arching
- Preferably use the entire cutting pad
- Exact cutter settings are necessary
- A maximum cutting depth of 0.3 mm is recommended
- Regular dressing prolongs service life
- Good cutter dies improve results


# frisylen® Cutting Pads – Product range and types

**frisylen®**

## Product range

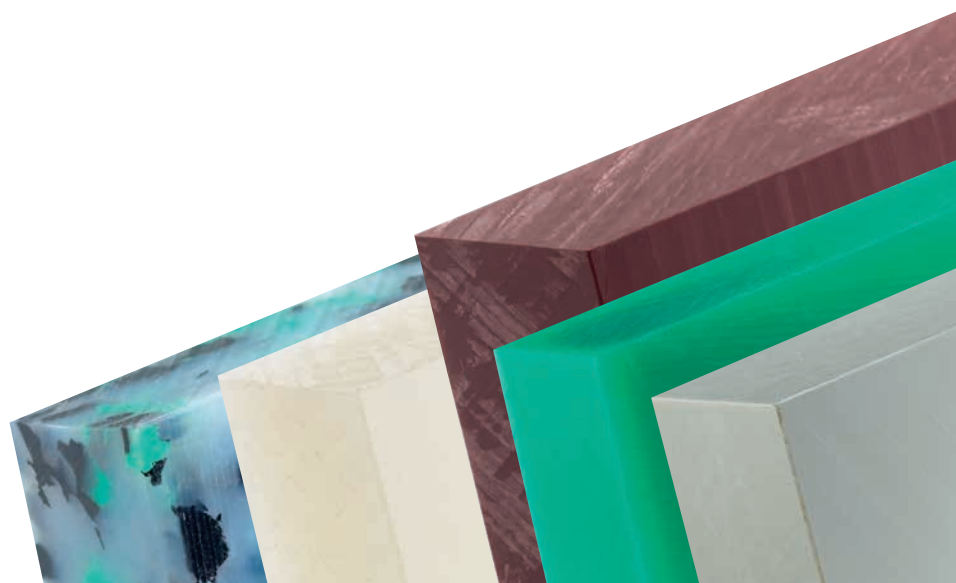
	frisylen® JN 480	frisylen® SP	frisylen® BNL	frisylen® XL 75
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## Pressed sheets (sizes/thicknesses in mm)

	900 x 450	10 to 80	10 to 80	10 to 80	10 to 80
	1,000 x 500	10 to 80	10 to 80	10 to 80	10 to 80
	2,000 x 1,000	10 to 80	10 to 80	10 to 80	10 to 80
	Colours	<input type="checkbox"/> natural	<input checked="" type="checkbox"/> green	<input checked="" type="checkbox"/> reddish brown	<input type="checkbox"/> multicoloured

Various sizes and thicknesses are available ex stock. For further details regarding availability, please contact our sales department: [sales@simona.de](mailto:sales@simona.de).  
Other sizes, thicknesses and colours available on request.

Product types	Properties	Manufacturing process	Areas of use
frisylen® JN 480	Reversible pad with smooth surfaces	pressed	Universal pad for all conventional materials and machine systems
frisylen® SP	Reversible pad with smooth surfaces	pressed	Pad for die-cutting paper, cardboard, foils, leather, etc.
frisylen® BNL	Reversible pad with smooth surfaces	pressed	Pad for processing leather, cardboard and materials with simple separating properties
frisylen® XL 75	Reversible pad with smooth surfaces	pressed	Pad for processing leather, plastics, foils, etc.



# frisylen® Cutting Pads – Material specifications

## Material specifications

	frisylen® JN 480	frisylen® SP	frisylen® BNL	frisylen® XL 75
Density, g/cm <sup>3</sup> , DIN EN ISO 1183	0.905	0.910	0.910	0.910
Yield stress, MPa, DIN EN ISO 527	32	24	24	28
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1,400	800	800	1,200
Impact strength, kJ/m <sup>2</sup> , DIN EN ISO 179	no break	no break	no break	no break
Notched impact strength, kJ/m <sup>2</sup> , DIN EN ISO 179	7	25	25	15
Shore hardness D, DIN EN ISO 868	70	67	67	69
Fire behaviour, DIN 4102	normal flammability	normal flammability	normal flammability	normal flammability
Service temperature range, °C	0 to +100	-10 to +80	-10 to +80	0 to +80
Chemical resistance	excellent in contact with many acids, alkalis and solvents			
Physiologically safe, BfR	✓	✓	✓	–

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