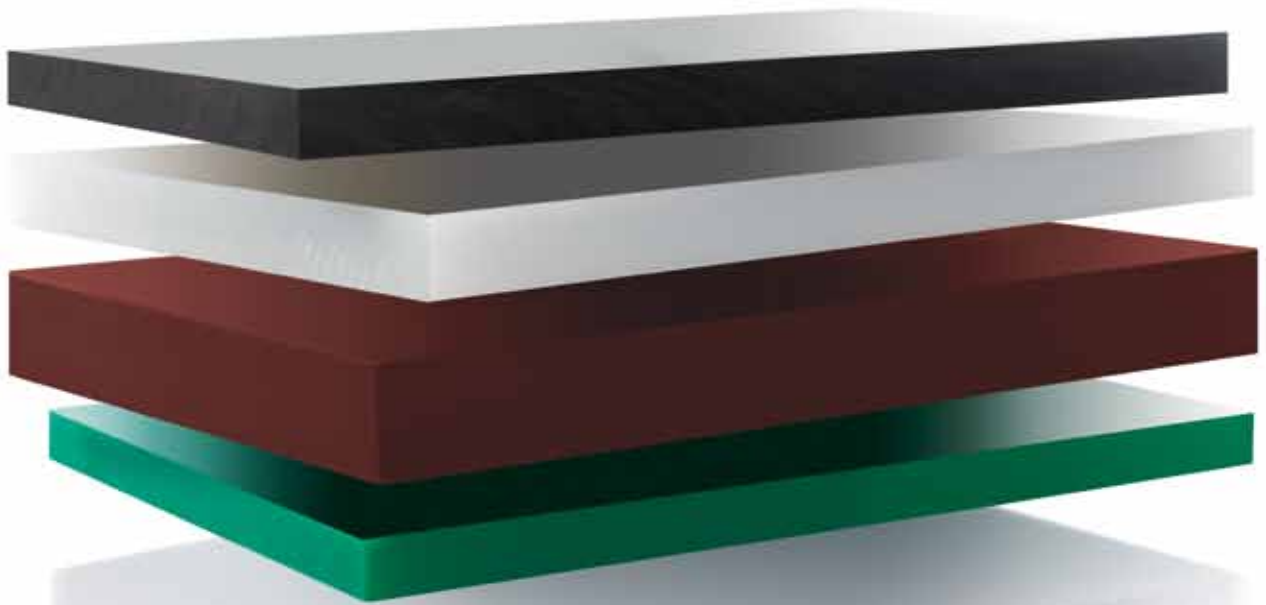


SIMONA

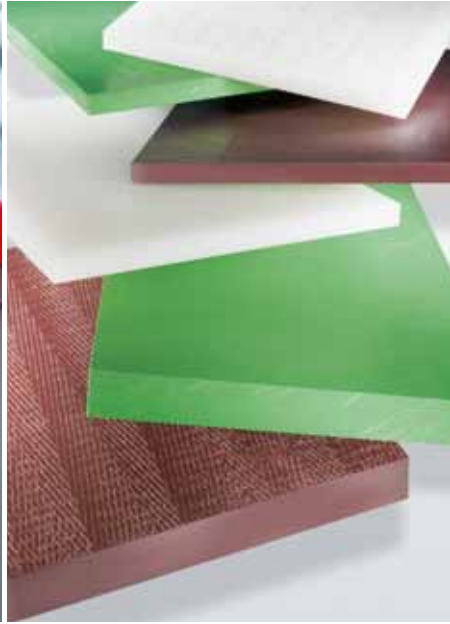


frisylen[®]

frisylen[®] Cutting Pads

Top-quality plastic pads for die-cutting

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
- Resistant to chemicals
- Normal flammability
- Excellent value

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 0.3mm is recommended
- Regular dressing prolongs service life
- Good cutter dies improve results

frislyen® range and product types



frislyen® sheets (formats/thicknesses in mm)

	900 x 450	1000 x 450	2000 x 1000	4120 x 2010	6200 x 2010	Colours
frislyen® JN 480/A/E	10 to 150	10 to 150	10 to 150	10 to 150	10 to 80	<input type="checkbox"/> natural
frislyen® SP/A	10 to 150	10 to 150	10 to 150	10 to 150	10 to 80	<input checked="" type="checkbox"/> green
frislyen® BNL/A	10 to 150	10 to 150	10 to 150	10 to 150	10 to 80	<input checked="" type="checkbox"/> reddish brown
frislyen® M 33	10 to 150	10 to 150	10 to 150	10 to 150	10 to 80	<input checked="" type="checkbox"/> grey
frislyen® XL 75	10 to 150	10 to 150	10 to 150	10 to 120	10 to 80	<input checked="" type="checkbox"/> multicoloured
frislyen® TS 500 E	10 to 150	10 to 150	10 to 150	10 to 120	10 to 80	<input checked="" type="checkbox"/> grey
frislyen® NL	available in various formats and thicknesses on request					<input type="checkbox"/> natural

Product types	Properties	Manufacturing process	Areas of use
frislyen® JN 480	Reversible pad with smooth surfaces	pressed	Universal pad for all conventional materials and machine systems
frislyen® JN 480 A	Pad with roughened back	pressed	Universal pad for all conventional materials and machine systems
frislyen® JN 480 E	Reversible pad with smooth surfaces	extruded	Use as a manual die-cutting pad, cutting-to-size pad and for applications without further processing
frislyen® SP	Reversible pad with smooth surfaces	pressed	Pad for die-cutting paper, cardboard, foils, leather, etc.
frislyen® SP A	Pad with roughened back	pressed	Pad for die-cutting paper, cardboard, foils, leather, etc.
frislyen® BNL	Reversible pad with smooth surfaces	pressed	Pad for processing leather, cardboard and materials with simple separating properties
frislyen® BNL A	Pad with roughened back	pressed	Pad for processing leather, cardboard and materials with simple separating properties
frislyen® M 33	Reversible pad with smooth surfaces	pressed	Pad for die-cutting leather, plastics, cardboard, foils, etc.
frislyen® XL 75	Reversible pad with smooth surfaces	pressed	Pad for processing leather, plastics, foils, etc.
frislyen® TS 500 E	Reversible pad with smooth surfaces	extruded	Use on roller presses as a cover sheet and as a cutting-to-size pad
frislyen® NL	Reversible pad with smooth surfaces	cast/planed	Special pad for sensitive fibre-based materials, highly elastic materials and glass fabric



Material specifications frislyen® Cutting Pads

Material specifications

	frislyen® JN 480/A/E	frislyen® SP/A	frislyen® BNL/A	frislyen® M 33	frislyen® XL 75	frislyen® TS 500 E	frislyen® NL
Density, g/cm ³ , DIN EN ISO 1183	0.905	0.910	0.910	0.915	0.910	0.915	1.15
Yield stress, MPa, DIN EN ISO 527	32	24	24	32	28	33	60
Tensile modulus of elasticity, MPa, DIN EN ISO 527	1400	800	800	1400	1200	1700	1800
Impact strength, kJ/m ² , DIN EN ISO 179	no break	no break	no break	no break	no break	no break	no break
Notched impact strength, kJ/m ² , DIN EN ISO 179	7	25	25	7	15	9	15
Shore hardness, D, DIN EN ISO 868	70	67	67	72	69	72	85
Fire behaviour, DIN 4102	normal flammability	normal flammability	normal flammability	normal flammability	normal flammability	normal flammability	normal flammability
Service temperature range, °C	0 to +100	-10 to +80	-10 to +80	0 to +100	0 to +80	0 to +100	-40 to +105
Chemical resistance	excellent in contact with many acids, alkalis and solvents						
Physiologically safe	yes [Ⓞ]	yes [Ⓞ]	yes [Ⓞ]	yes [Ⓞ]	no	yes [Ⓞ]	yes [Ⓞ]

Ⓞ BfR – Federal Institute for Risk Assessment

Ⓞ EU Regulation

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