



Squeegee Rubber Blades

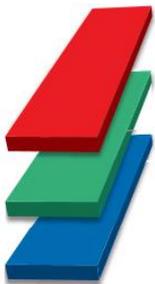
PRODUCT DESCRIPTION

Standard Resistance Squeegees: high quality rubber blades manufactured with a centrifugation process to avoid bubbles and craters in the material and to bring optimal homogeneity to the compound, even at the core of the material and after grinding. Manufactured in monolayer or in triple-layer for the highest needs.

Eco Squeegees are made with a new polyurethane formulation to achieve performance at an attractive pricing to avoid you the need to settle for an unknown brand when you can get the excellent quality and consistency of a leading manufacturer. Eco squeegees rubber blades are the right choice for non-critical applications ranging from textile to graphic printing, ideal with less aggressive solvents. This quality offer always non-compromising performances and other color-coded for an easy a quick identification.

STANDARD PROFILES

Standard Squeegee Rubber Blades



Soft single-layer squeegee rubber blade with soft 65°shA red

Soft single-layer squeegee rubber blade with medium 75°shA green

Soft single-layer squeegee rubber blade with hard 85shA blue



Triple medium (75/90/75°shA)
Green/white/Green

Triple soft (65/90/65°shA)
Red/white/Red

Eco Squeegee Rubber Blades



Soft single-layer squeegee rubber blade with soft 60°shA Orange

Soft single-layer squeegee rubber blade with medium 70°shA Yellow

Soft single-layer squeegee rubber blade with hard 80°shA Pink



Triple extra soft (55/90/55shA)
Orange/White/Orange

Triple soft (62/90/62shA)
Blue/White/Blue

Triple medium (70/90/70shA)
Yellow/White/Yellow

All single-layer squeegee rubber blades are available with these finishing (please note that except the straight square edge, the other ones have no-sense to be made on triple-layer rubbers):

-  Straight square edge (the normal made format)
-  Round bevelled
-  Single bevel 45° angle
-  Single bevel + flat land 45° angle + 1mm flat (±0,5mm)
-  Double bevel + flat land 60° angle + 1mm flat (±0,5mm)
-  Double bevel (V type)



Triple-layer squeegee rubber blades are recommended when high-speed automatic printing equipment is used. These type of squeegee rubbers have a 90°shA hard center layer for support. It is ideal for fine lines and halftone printing. Using Triple-layer squeegees will extend your squeegee life, help prevent dot gain, and generate immediate savings on ink and other consumable through better control of the squeegee pressure.

APPLICATION SECTORS

Standard Squeegees are all-purpose polyurethane blade with good combined resistance to chemicals and abrasion. They were developed to withstand various applications in screen-printing.

Eco Squeegees are the ideal choice for non-critical abrasive application or when using common screen inks.

Both type of squeegees are made to be used in:

- Manual way or with automatic equipments
- Textile printing
- Porcelain, glass, ceramic and other industrial uses
- Electronic, PCB, solar cells technical printing
- Graphics multi-purpose

FEATURES

- High environment stability
- Good resistance to chemicals & abrasion
- Sharpens easy
- Color coded for easy identification
- Individually batch numbered and packaged

	Standard Specifications	Standard Tolerances	Eco Specifications	Eco Tolerances
Length	3660 mm / 12 ft	≥ 3640 mm	3660 mm / 12 ft	≥ 3640 mm
Width	< 50 mm (2")	± 1 mm	50 mm (~2")	± 1 mm
	≥ 50 mm	+ 1 / -2 mm	≥ 50 mm	+ 1 / -2 mm
Thickness	4-12mm	± 0.4mm	9.2 mm	± 0.4mm
Hardness	65 to 85 shA	± 3 shA	60° to 80°shA	± 5°shA
		No more than 2°shA between the two sides of a squeegee		No more than 3°shA between the two sides of a squeegee
Triple-layers	Same values as single layer squeegees with a 90°shA center			

Other formats, colors, hardnesses and sizes are available under request and subject to minimal quantity orders.



HOW TO USE | SPECIAL RACCOMANDATIONS

Using:

- In general softer grades (65°shA) are used for increased ink deposits and high coverage printing. Harder grades (85°shA) are used for reduced deposits, notably when printing UV inks for fine texts and higher line counts.
- Always test the characteristics of the product before use it in the regular printing jobs.
- Do not apply excessive pressure on squeegees as this makes your ink deposit heavy, uncontrollable and creates excessive wear.
- It is recommended that your squeegee exceeds the printed image in size, in around 3cm each side.
- Make certain to leave significant free space between both ends of your squeegee and the inside of your frame.
- Insert the squeegee in the machine or hand holder in appropriate manner.
- Use appropriate squeegee thickness to avoid forcing the blade in the holder.
- If the holder construction allows for it, regularly change the printing side of the squeegee to minimize the effect of bending with speed and pressure.
- Rotate your squeegee: do not wait until mechanical & chemical wear permanently bends back your blade
- When you replace the used squeegee rubber blade by a fresh one, allow the used blade to relax in a flat position for to 24 hours.

Cleaning:

- To clean the squeegee, remove excess of ink with a cardboard or a soft cloth. Wash blade with a cloth saturated with appropriate cleaning chemicals. Finish with a clean dried soft cloth.
- Avoid the use of aggressive chemicals, in particular ink thinners. Let the squeegee rest and the chemicals evaporate before re-use or sharpening.

Sharpening:

- Squeegee blades can be sharpened by all methods commonly used in the screen printing industry (EptaTech offers an extensive range of sharpeners; please contact us for more information).
 - Belt grinders
 - Wheel sharpeners
 - Knife cutting machines
- Sharpen dry squeegees only. Never allow a squeegee with solvents to be sharpened.
- Do not wash a hot, freshly sharpened blade with chemicals.
- Do not try to grind excessive material in one pass.
- Precision printing requires a preventive sharpening to accommodate the squeegee edge to the holder shape.

Storage:

- Store in a dry cool place away from any direct source of light.
- If the squeegee is exposed to extreme temperature and humidity conditions, its hardness characteristics may be altered.
- For all type of squeegee rubber blades and for medium or long-term storage, blades must be kept flat, unrolled, especially prior to use.



DETERMINED SPECIFICATIONS

Properties	Unit	Norms	Standard Values *	Eco Values **
Shore hardness at 20°C	°shA	DIN53505	75	75
Shore hardness at -5°C	°shA	DIN53505	85	n.a.
Shore hardness at +80°C	°shA	DIN53505	73	n.a.
Specific gravity	g/cm ³	n.a.	1.18	1.21
Abrasion loss	mm ³	DIN53516	< 50	< 80
DRC (25% of crushing during 22 hours at 70°C)	%	DIN53517	48	n.a.
Swelling in solvent (70% dihidrofuranone basis)	%	ISO 175	< 30	< 40
Tensile modulus at 10% elongation	MPa	DIN53504	1.1	n.a.
Tensile modulus at 100% elongation	MPa	DIN53504	4.45	3.0
Tensile modulus at 200% elongation	MPa	DIN53504	7.4	n.a.
Tensile modulus at 300% elongation	MPa	DIN53504	13.3	5.1
Tensile strength	MPa	DIN53504	50	30.4
Tensile strain at break	%	DIN53504	450	1140
Tear resistance (non initiated tear)	KN/m	DIN53515	89	50.6
Tear resistance (initiated tear)	KN/m	DIN53515	22	20.9
Resilience	%	DIN53512	24	n.a.

* Physical and Chemical Specification for a Standard 75°shA grade squeegee rubber blade

** Physical and Chemical Specification for a Eco 75°shA grade squeegee rubber blade

IMPORTANT NOTE

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us to the suitability of the product for the intended purpose, does so at his own risk.

While we endeavor to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product.

Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising from the performance of the product or for any loss or damage arising out of the use of the product.

The information contained in this sheet is subject to modification from time to time, according to made experience and to our policy of continuous product improvement