



Unitex® squeegees printing for the long run

Unitex® Ulon HP Glass screen printing

Unitex® Ulon HP squeegee range provides optimum performance for the most demanding screen print applications.

It is manufactured from NDI (Naphthalene Diisocyanate) polyurethane technology, which provides the highest level of chemical and abrasion resistance. Unitex® Ulon HP is widely recognized as the best squeegee for use with solvent and UV based inks.

Benefits:

- Market leading wear and tear resistance – Perfect for reproducing thick and thin films, as well as minimizing ink usage *
- Precision printing edge – Exceptional print quality on most demanding applications
- Resistant to solvents used in modern ink systems - Long predictable print runs
- Manufactured to +/- 2.5° Shore A hardness tolerances - Minimal set up and re-set up times
- High degree of inspection ensuring consistent quality - Longer print runs and less downtime / rejects
- Made from Vulkollan® which is one of the most innovative and technically advanced elastomers in the world – Compatible with a wide range of ink systems and glass applications
- Trelleborg Expertise - High performance, long squeegee life and outstanding value

Unitex® Ulon HP can offer up to a 43% cost saving on ink usage



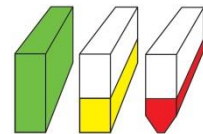
Durometer/Color Coding:
Tolerance: +/- 2.5° Shore A

PU500/1 55-60° YELLOW	PU500/3-4 65-70° RED	PU500/4 70-75° GREEN	PU500/8 75-80° BLUE
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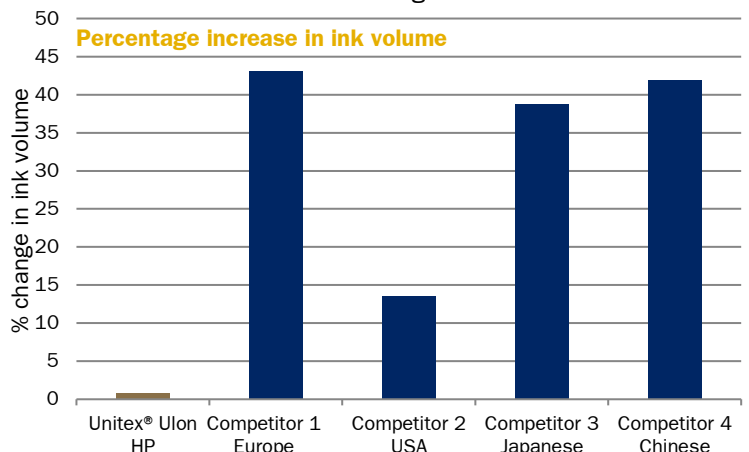
Profile:

- Plain
- Plain Composite
Soft tip for greater control
- D-cut Composite



* Accelerated Squeegee Wear Test

70-80 Shore A Hardness - Single Durometer



Squeegee prints measured before and after 50 print passes on silicon carbide abrasive – 2500 grit (8.4 µm).

Independent test by the Welsh Centre for Printing and Coatings – report available on request

Glass screen printing

Unitex® Ulon HP is ideal for screen printing on flat glass. It is used in many automotive and architectural applications.

Typical Ink Systems:

- Epoxy
- Enamel
- UV
- Solvent based

Technical Recommendations:

- Unitex® Ulon HP is an excellent squeegee for screen printing onto glass substrates using enamels which are fired permanently into the surface of the glass. It is also ideal for the frequently abrasive cold ceramic 'Frit' water based inks used in architectural glass applications
- Unitex® Ulon HP Composite 500/1 (55-60° Shore A) hardness is ideal when a large amount of ink is required onto the substrate. Extra pressure can be applied without distortion ensuring good tip control
- Unitex® Ulon HP 500/4 (70-75° Shore A) hardness when the definition detail is fine



Case Study

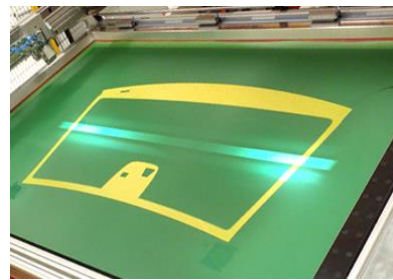
USA based company that screen prints onto windshields for the automotive market. They print single layer prints with solvent based inks.

Objectives:

The company was experiencing poor print runs as a result of significant batch variations with the squeegee hardness out by +/- 10°- 14° shore. This resulted in excessive waste as well as downtime. The company now uses Unitex® Ulon HP 500/8 (75-80° Shore A).

Outcome:

- Consistent batched: +/- 2.5° Shore A hardness
- Longer print runs
- Reduced waste and downtime



Technical Data:

Dimensions	Plain Section	Tolerance
Length	Up to 3750mm (147")	+/- 10mm
Width	15 - 50mm (0.6 - 2")	+/- 0.5mm
	50 - 100mm (2 - 4")	+/- 1mm
	100 - 610mm (4 - 24")	+/- 5mm
Thickness	Up to 12.5mm	+/- 0.4mm
Type	Hardness	Tolerance
Unitex® Ulon HP	60° - 95° Sh A in 5° Increments	+/- 2.5° Shore A

Available in different profiles, hardnesses and sizes on request.

Comments from the Production Supervisor:

'We used a low cost squeegee which ended up costing us much more in the long run. Now we enjoying an increase in output and a reduction in waste. We are very pleased with the outcome and can safely say there isn't anything better than Unitex® squeegees'

Contact Us

Trelleborg Applied Technologies delivers innovative and reliable solutions that maximize business performance to meet your needs. Our dedicated and highly skilled staff are always on hand to provide seamless process support from initial idea, through to delivery and beyond.

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