



# Unitex® squeegees printing for the long run

## Unitex® Sprint

Unitex® Sprint provides premium screen-printing performance and quality at a competitive price. Unitex® Sprint is designed for use with UV-LED-cured systems, water-based inks systems and the more environmentally friendly chemical systems commonly used in modern textile printing processes. Made from Diphenylmethane Diisocyanate (MDI) technology, Unitex® Sprint is designed to give high resistance to degradation by commonly used inks, solvents and monomers used in modern printing processes.

### Profile

- Single Durometer
- Triple Durometer
- D-Cut 45° and 62°
- D-Cut with Land 45° and 62°



Plain



Triple



D-cut and D-cut with Land

### Benefits:

- Compatible with most textile inks
- Resistant to solvents used in modern ink systems
- Precision edge printing with pin sharp reproduction
- Good abrasion resistance
- Consistent durometer
- Tight manufacturing tolerances

### Durometer/color coding:

Tolerance: +/- 3° Shore A

45° CLEAR	50° GOLD	55° CLEAR RED	60° YELLOW
65° ORANGE	70° RED	75° GREEN	80° BLUE
	85° PURPLE	90° WHITE	

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**Softer squeegee**                      **Harder squeegee**  
More ink, richer colours              Less ink, greater detail

## Textile screen printing

Unitex® Sprint is suitable for screen printing on most textile substrates for decorative or personalised printing including:

- Automatic flat screen
- Semi-automatic screen
- Rotary screen
- Hand printing

### Typical ink systems:

- Plastisol
- Soft hand plastisol
- Water based
- Water based discharge

Unitex® Sprint exceeds the performance of similar squeegees on the market.

## Technical Recommendations

Unitex® Sprint can cope with intricate designs on silk through to durable bold prints on a wide range of fabric-based substrates.

Textiles such as T-shirts often require a large amount of ink deposited, so a softer squeegee is required such as Unitex® Sprint 60 Shore A.

### Specifications

Dimensions	Plain section	Tolerance
Length	Up to 3750 mm (147")	+/- 10 mm
Width	15 - 50 mm (0.6 - 2")	+/- 0.5 mm
	50 - 100 mm (2 - 4")	+/- 1 mm
	100 - 610 mm (4 - 24")	+/- 5 mm
Thickness	Up to 12.5 mm	+/- 0.4 mm
Type	Hardness	Tolerance
Unitex® Sprint	45° - 90° Sh A in 5° increments	+/- 3° Shore A

Available in different profiles, hardnesses and sizes on request

### Technical data chart

Physical Property	Values	Standard
Tensile break strength	37.5 Mpa	BS ISO 37:2017
Tensile break strain	472%	BS ISO 37:2017
Tensile stress at 100% elongation	3.23 Mpa	BS ISO 37:2017
Tensile stress at 300% elongation	8.57 Mpa	BS ISO 37:2017
Tear strength (die B - nicked)	24.45 kN/m	ISO 34-1:2010
Abrasion resistance - volume loss (rotating cylindrical drum - aluminium oxide 60 grit)	44mm <sup>3</sup>	BS ISO 4649:2017
Solvent swell mass increase - 2hr submersion in cyclohexanone	26.21%	BS ISO 1817:2005
Solvent swell hardness decrease - 2hr submersion in cyclohexanone	-13 Shore A	BS ISO 1817:2005
Solvent swell hardness recovery - cyclohexanone 2hr + 120hr recovery	-2 Shore A	BS ISO 1817:2005
Retained hardness post swell - cyclohexanone 2hr + 120hr recovery	97.26%	BS ISO 1817:2005
Retained tensile break strength post swell - cyclohexanone 2hr + 120hr recovery	55.98%	BS ISO 1817:2005
Retained tensile break strain post swell - cyclohexanone 2hr + 120hr recovery	97.25%	BS ISO 1817:2005
Retained tensile stress at 100% elongation post swell - cyclohexanone 2hr + 120hr recovery	78.31%	BS ISO 1817:2005
Retained tensile stress at 300% elongation post swell - cyclohexanone 2hr + 120hr recovery	79.35%	BS ISO 1817:2005
Average percentage of retained properties post swell	81.63%	BS ISO 1817:2005
Resilience - rebound resilience	54%	DIN 53512:2000

## 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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