



## TECHNICAL DATA

# Scapa AS123K

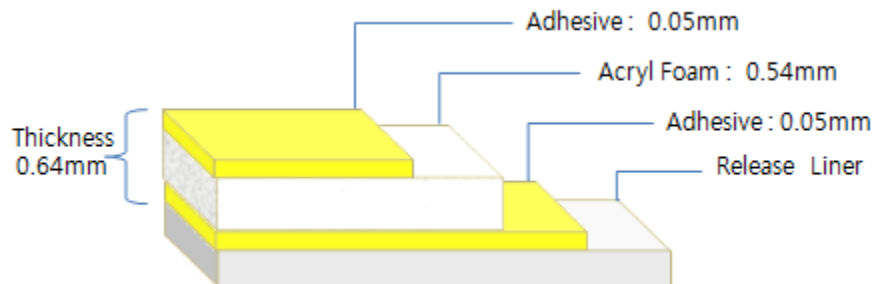
## Acrylic Foam Tape (AFT)

### DESCRIPTION

AS123K is an acrylic foam tape, double side coated with a high tack and high peel adhesion pressure sensitive acrylic adhesive for low surface energy substrates. It is protected with a release liner on one side.

### CONSTRUCTION

The total product thickness is **0.64 mm**; the cross section image is not to scale.



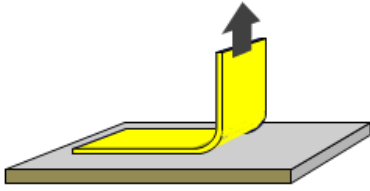

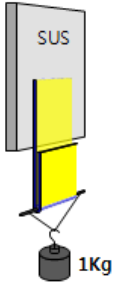
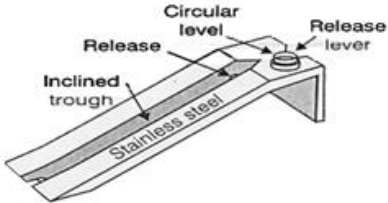
### APPLICATIONS

Used for bonding low surface energy substrates such as Polycarbonate (PC), ABS, Acrylic (PMMA), Polyester (PET) and Polyimide. The bonding of PE and PP requires the use of a primer to increase performance. The range of applications includes those in: white goods, automotive, signage, etc...

### PRODUCT BENEFITS

- Withstands expansion and contraction of materials without loss of adhesion due to its visco-elastic properties
- Adhesive with very high tack for immediate adhesion, even to rougher surfaces.
- High strength under static and dynamic loads
- Suitable for indoor and outdoor use (excellent UV and ageing resistance)
- The structure of the foam gives high vibration damping and impact resistance
- Complies with Directives 2000/53/EC (ELV) and 2002/95/EC (RoHS) restricting the use of heavy metals for products in the automotive and electronics markets.
- Service temperature: -40°C to +80°C continuous, and to +120°C peak (duration 1 hour).

# TECHNICAL PROPERTIES

Test	Depiction of Test	Technical Data	Test Method															
<b>90° Peel Adhesion</b>		<table border="1"> <thead> <tr> <th>Subs.</th> <th>20min</th> <th>24hr</th> </tr> </thead> <tbody> <tr> <td>Steel</td> <td>30</td> <td>40</td> </tr> <tr> <td>Glass</td> <td>30</td> <td>40</td> </tr> <tr> <td>PC</td> <td>55</td> <td>70*</td> </tr> <tr> <td>ABS</td> <td>55</td> <td>70*</td> </tr> </tbody> </table> <p style="text-align: right;">Unit : N/25mm</p>	Subs.	20min	24hr	Steel	30	40	Glass	30	40	PC	55	70*	ABS	55	70*	ASTM D3330 PSTC 101 * Foam delamination
Subs.	20min	24hr																
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<b>Dynamic Shear</b>		<table border="1"> <thead> <tr> <th>Subs.</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Steel</td> <td>400</td> </tr> </tbody> </table> <p style="text-align: right;">Unit : N/(25mm)<sup>2</sup></p>	Subs.	Value	Steel	400	ASTM D1002											
Subs.	Value																	
Steel	400																	
<b>Static Shear</b>		<table border="1"> <thead> <tr> <th>Condition</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>30KPa @ 25°C</td> <td>&gt; 10,000</td> </tr> <tr> <td>12KPa @ 93°C</td> <td>&gt; 10,000</td> </tr> </tbody> </table> <p style="text-align: right;">Unit : min</p> <p style="text-align: right;">30KPa : 2kg/(25mm)<sup>2</sup></p>	Condition	Value	30KPa @ 25°C	> 10,000	12KPa @ 93°C	> 10,000	ASTM D3654 PSTC 107M									
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30KPa @ 25°C	> 10,000																	
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<b>Rolling Ball Tack</b>		<table border="1"> <thead> <tr> <th>Ball #</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>#14 (5.604g)</td> <td>50</td> </tr> <tr> <td>#24 (28.2g)</td> <td>150</td> </tr> </tbody> </table> <p style="text-align: right;">Unit : mm</p>	Ball #	Value	#14 (5.604g)	50	#24 (28.2g)	150	ASTM D3121 PSTC 6M									
Ball #	Value																	
#14 (5.604g)	50																	
#24 (28.2g)	150																	

\* Test sample Preparation

- Cleaning the substrates tested with isopropyl alcohol (IPA) or Acetone; lamination of the tape with a 2kg/5kg rubber roller back and forth once.

- Tests conducted at: 25 °C, ±5°C, and 35% ±15% RH

## PHYSICAL PROPERTIES

Properties	Unit	Average Value	Test Method
Tensile Strength	N/25mm	9	ASTM D882
Elongation	%	1000	ASTM D882
Density	kg/m <sup>3</sup>	820	Mass-Volume

## STANDARD PRESENTATION

Roll length	33 metres
Roll width	On request from 6mm to max. 1000 mm.
Core	76mm, Plain plastic or Scapa branded cardboard core
Packaging	Cardboard, bulk packed with silicone interleaving between layers
Colour	White
Release liner	Scapa branded white paper (PR)

## RECOMMENDATIONS

Rolls should be stored flat on their cut edges in the original packaging. The product must be protected from dust, heat, moisture, direct sunlight and solvent fumes. The ideal storage temperature should be between 10°C and 30°C with relative humidity at 30 to 70%. The shelf life is 24 months from the date of manufacture.

Surfaces should be clean, dry and free of dust, grease, oil or other contaminants.