



AFT / AFFT
Product Guide



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Glossary

ABS	Acrylonitrile Butadiene Styrene
Al	Aluminium
PC	Polycarbonate
PMMA	Polymethylmethacrylate (Acrylic)
PVC	Polyvinyl Chloride
SS	Stainless Steel

Product Descriptions

In the tables listing our product ranges, the last digit indicates the colour of the product:

B	Black
G	Grey
W	White
TL	Translucent
TP	Transparent

The products are supplied on high quality release liners:

P	Plain white paper
PE	Red colour Polyethylene liner
PET	Clear Polyester liner
PR	White paper with the Scapa logo printed
SPE	Red colour siliconised Polyethylene liner

All technical data is correct as of July 2012.

This information is provided by Scapa for information only. The information is considered to be reliable but accuracy is not guaranteed.

Any results shown in this information may not be relevant to all users of the product and it is the user's responsibility to determine the suitability of the product for its intended purpose.

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Scapa does not exclude liability for death or personal injury arising from its negligence or fraud.

Scapa refers to Scapa Group plc and its subsidiaries.



Scapa Group

Who we are

As a global manufacturer of bonding materials and solutions, Scapa is at the forefront of adhesive technology for the Industrial, Healthcare and Electronics markets.

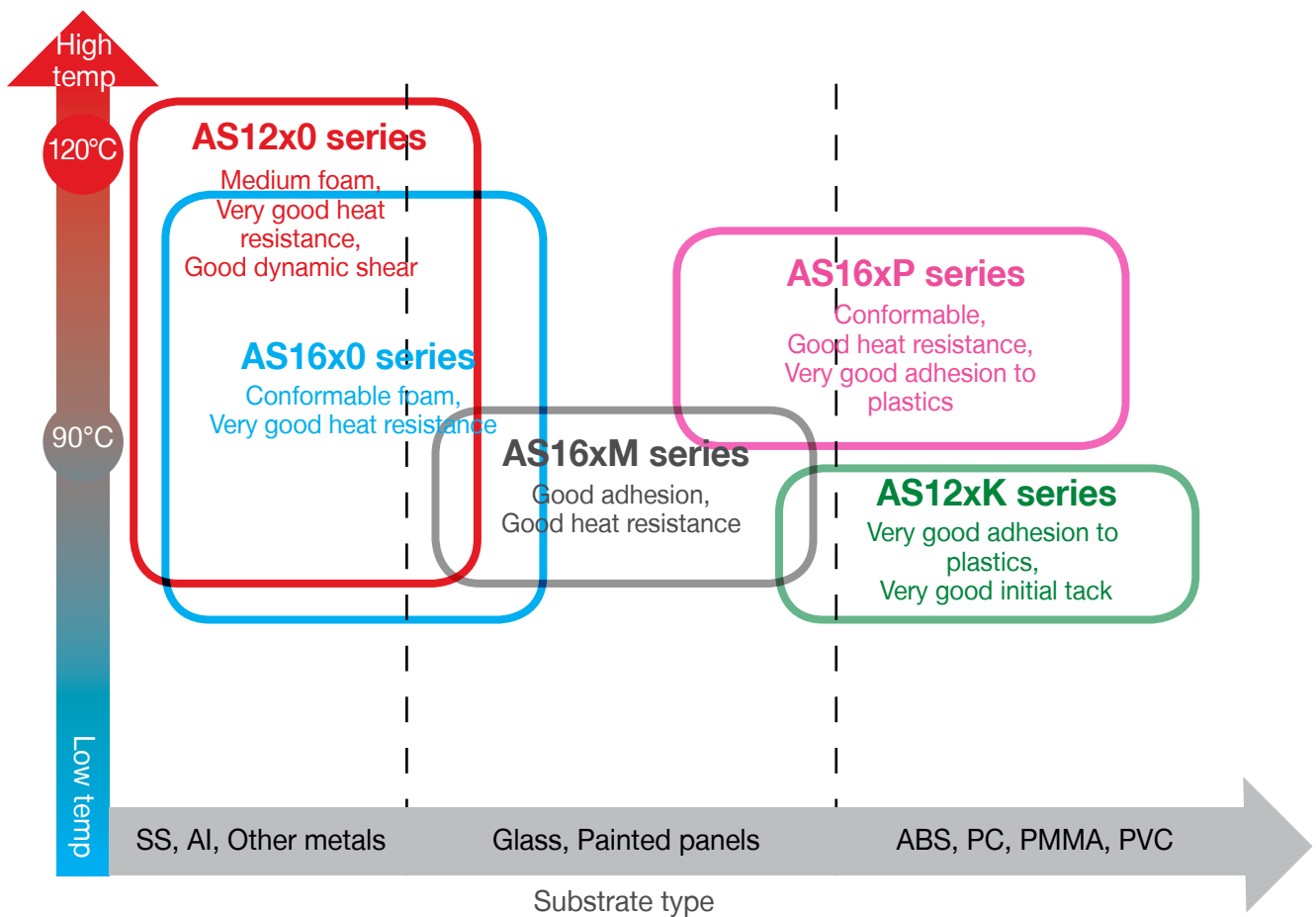
What we do

Through an application driven focus, we support our global OEMs, distributors and consumers in maximising their product performance and process efficiency.

AFT (Acrylic Foam Tape)

Scapa has developed and manufactures a range of Acrylic Foam Tape (AFT) products that create strong, reliable adhesive bonds to a wide spectrum of substrates. These products can be used in a wide range of applications within the industrial, electronics and transportation markets. They withstand thermal movement, dynamic forces and have excellent aging and weathering properties.

Product Selection Tool



Single Pass AFT Products

Product	Thickness (mm)	Density (kg/m ³)	90° peel adhesion SS (N/25mm)	Dynamic shear SS (N/25mm ²)	Al / Al T-Block (N/25mm ²)	Static shear 25°C (kg)	Static shear 93°C (kg)	Static shear 120°C (kg)	Features
AS1130TP	0.64	950	50	350	600	2	1.5	1	Transparent tape
AS1160TP	1.0	950	70	300	600	2	1.5	1	
AS1230G/W	0.64	800	50	480	450	3	1.5	1	Medium softness Very good heat resistance
AS1250G/W	0.8	800	70	450	400	3	1.5	1	
AS1270G/W	1.1	800	80	420	400	3	1.5	1	
AS12B0G	1.5	800	70	300	300	3	1.5	1	
AS12Z0W	3.2	800	70	250	250	2	1	1	
AS1610G/W	0.4	720	45	500	350	3	1	-	Softer foam Good wetting out Good for low temperatures
AS1650G	0.8	720	70	400	400	3	1.5	1	
AS1670G	1.1	720	80	350	400	3	1.5	1	
AS1690G	1.6	720	70	300	350	3	1.5	1	
AS16V0G	2.3	720	70	250	350	2	1	1	

- Core Products

- 90° peel adhesion to Stainless Steel 24hr dwell, dynamic shear to Stainless Steel 24hr dwell, T-block to Al 72hr dwell

- Static shear : the weight held for 10,000 min with 25mm x 25mm bonding to Stainless Steel

Adhesive Coated AFT Products

Product	Thickness (mm)	90° peel adhesion SS (N/25mm)	90° peel adhesion ABS (N/25mm)	Dynamic shear SS (N/25mm ²)	Al / Al T-Block (N/25mm ²)	Static shear 25°C (kg)	Static shear 93°C (kg)	Initial Tack High ★★★ Medium ★★ Lower ★	Features
AS161MG	0.4	40	40	450	350	3	0.75	★★	Medium foam for general purpose
AS163MG	0.64	50	50	400	350	3	0.75	★★	
AS165MG	0.8	60	60	350	300	3	0.75	★★	
AS167MG	1.1	70	70	350	300	3	0.75	★★	
AS121KW	0.4	35	55	450	350	3	0.75	★★★★	Medium foam for plastics High tack
AS123KW	0.64	45	70*	400	350	3	0.75	★★★★	
AS127KW	1.1	70	85*	350	300	3	0.75	★★★★	
AS160PB	0.25	35	45	500	300	3	0.75	★	Softer foam Very high adhesion Good heat resistance
AS163PB	0.64	60	70*	500	450	3	1	★	
AS165PG	0.8	70	80*	450	400	3	1	★	
AS168PG	1.2	75	85*	400	400	3	1	★	
AS125MsG	0.8	70/60**	35/60**	350	300	3	1	★★	Single side coating for auto-motive (O/L)
AS128MsG	1.2	80/70**	40/70**	350	300	3	1	★★	

- Core Products

* Foam delamination

** O/L: Open side / Liner side

Industrial

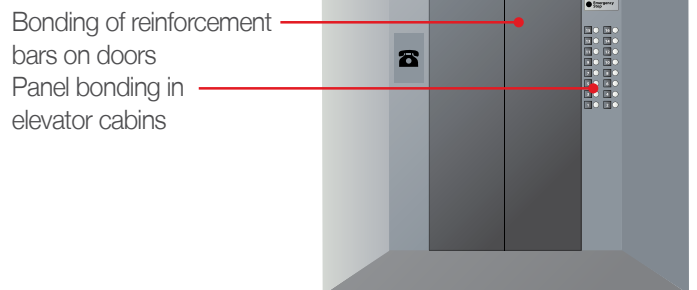
Within the industrial sector, Scapa's AFT products can be used in a broad range of markets and applications including the illustrated examples below as well as:

- Commercial vehicles
- Point of sale and display assemblies
- Mass transit
- Leisure vehicles
- Metal forming
- Alternative energy
- Appliances / white goods
- Furniture manufacturing
- Window and door systems

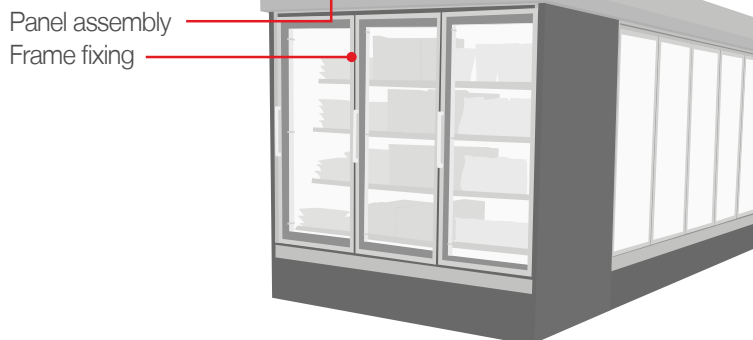
Air conditioning applications



Elevator applications



Commercial / domestic refrigeration applications



Commercial signage applications





Multi-purpose applications

AS16xMG series

Good adhesion and shear, excellent durability and holding power

AS161MG
AS163MG
AS165MG
AS167MG

Clear and translucent products

AS11x0 TP & TL series

Clear and translucent products for bonding of glass and clear plastics

AS1100TP / AS1130TP
AS1160TP / AS11B0TP
AS11T0TP / AS1130TL
AS1170TL

Low surface energy bonding

AS12xKW series

High tack for quick initial bonding, good for lightly embossed surfaces

AS121KW
AS123KW
AS127KW

Product	Thickness (mm)	90° peel adhesion SS (N/25mm)	90° peel adhesion ABS (N/25mm)	Dynamic shear (N/25mm ²)	Initial Tack High ★★★ Medium ★★	Static shear 25°C (kg)	Static shear 93°C (kg)
AS161MG	0.4	40	40	450	★★	3	0.75
AS163MG	0.64	50	50	400	★★	3	0.75
AS165MG	0.8	60	60	350	★★	3	0.75
AS167MG	1.1	70	70	350	★★	3	0.75
AS1100TP	0.25	35	25	450	★★	2	1
AS1130TP	0.64	55	30	350	★★	2	1
AS1160TP	1.0	70	35	300	★★	2	1
AS11B0TP	1.5	75	40	250	★★	2	1
AS11T0TP	2.0	80	40	200	★★	2	1
AS1130TL	0.64	55	30	350	★★	2	1
AS1170TL	1.1	70	35	300	★★	2	1
AS121KW	0.4	35	55	450	★★★	3	0.75
AS123KW	0.64	45	70*	400	★★★	3	0.75
AS127KW	1.1	70	85*	350	★★★	3	0.75

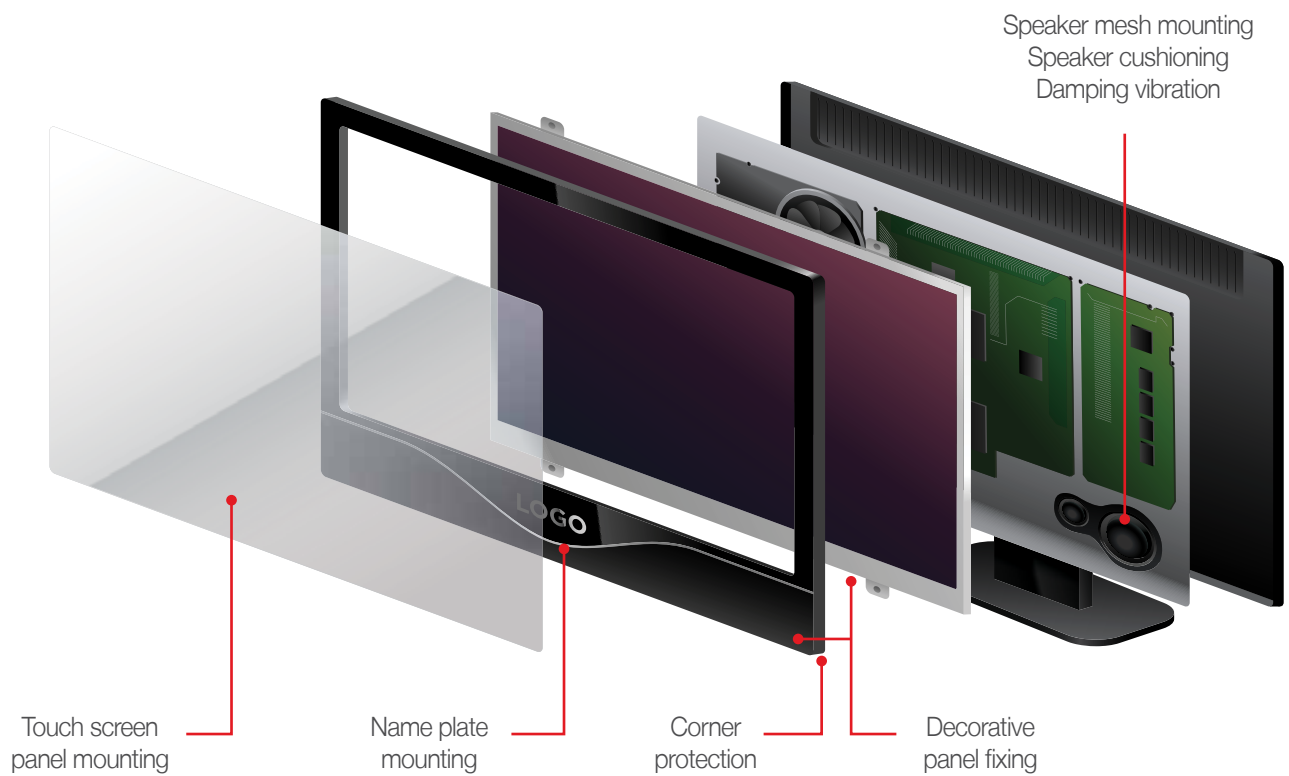
- Core Products

* Foam delamination

Electronics

The Scapa AFT range is the flexible alternative to mechanical fixings for bonding display, laptop and camera components. They are perfect for enabling electronics manufacturers to produce thinner and lighter devices.

Example Application: Display





Multi-purpose applications

AS16xMG series

Good adhesion, excellent durability and good holding power

AS161MG
AS163MG
AS165MG
AS167MG

High temperature applications

AS16xPB/G series

Excellent holding power at 93°C, low tack but very high ultimate adhesion

AS163PB
AS165PG
AS168PG

Low surface energy bonding

AS12xKW series

High tack for quick initial bonding, good for uneven patterned surfaces

AS121KW
AS123KW
AS127KW

Product	Thickness (mm)	90° peel adhesion SS (N/25mm)	90° peel adhesion ABS (N/25mm)	Dynamic shear (N/25mm ²)	Initial Tack High ★★★ Medium ★★ Lower ★	Static shear 25°C (kg)	Static shear 93°C (kg)
AS161MG	0.4	40	40	450	★★	3	0.75
AS163MG	0.64	50	50	400	★★	3	0.75
AS165MG	0.8	60	60	350	★★	3	0.75
AS167MG	1.1	70	70	350	★★	3	0.75
AS163PB	0.64	60	70*	500	★	3	1
AS165PG	0.8	70	80*	450	★	3	1
AS168PG	1.2	75	85*	400	★	3	1
AS121KW	0.4	35	55	450	★★★	3	0.75
AS123KW	0.64	45	70*	400	★★★	3	0.75
AS127KW	1.1	70	85*	350	★★★	3	0.75

- Core Products

* Foam delamination



Automotive

Within the transportation market, Scapa's AFT products offer car manufacturers a more reliable and effective bonding solution to traditional mechanical fixings.



Emblems, name plates,
scripting

AS12 / AS16x0G series

Good adhesion, excellent durability
and good holding power

Medium density: (AS12x0G series)
AS1250G / AS1270G / AS12T0G

Lower density: (AS16x0G series)
AS1650G / AS1680G / AS1690G

Body-side moulding, exterior
applications

AS12xKW series

High tack for fast adhesion build-up

AS121KW
AS123KW
AS127KW

Injection moulded
components

AS12xMsG series

High adhesion on liner side for
specific painted panel bonding

AS125MsG
AS128MsG

Product	Thickness (mm)	90° peel adhesion SS (N/25mm)	90° peel adhesion ABS (N/25mm)	Dynamic shear (N/25mm ²)	Al / Al T-block (N/25mm ²)	Static shear 25°C (kg)	Static shear 93°C (kg)
AS1250G	0.8	70	35	450	400	3	1.5
AS1270G	1.1	80	40	420	400	3	1.5
AS12T0G	2.0	70	50	300	300	3	1.5
AS1650G	0.8	70	35	400	400	3	1.5
AS1680G	1.2	80	40	350	400	3	1.5
AS1690G	1.6	70	40	300	350	3	1.5
AS121KW	0.4	35	55	450	350	3	0.75
AS123KW	0.64	45	70*	400	350	3	0.75
AS127KW	1.1	70	85*	350	300	3	0.75
AS125MsG	0.8	70/60**	35/60**	350	300	3	1
AS128MsG	1.2	80/70**	40/70**	350	300	3	1

- Core Products

* Foam delamination

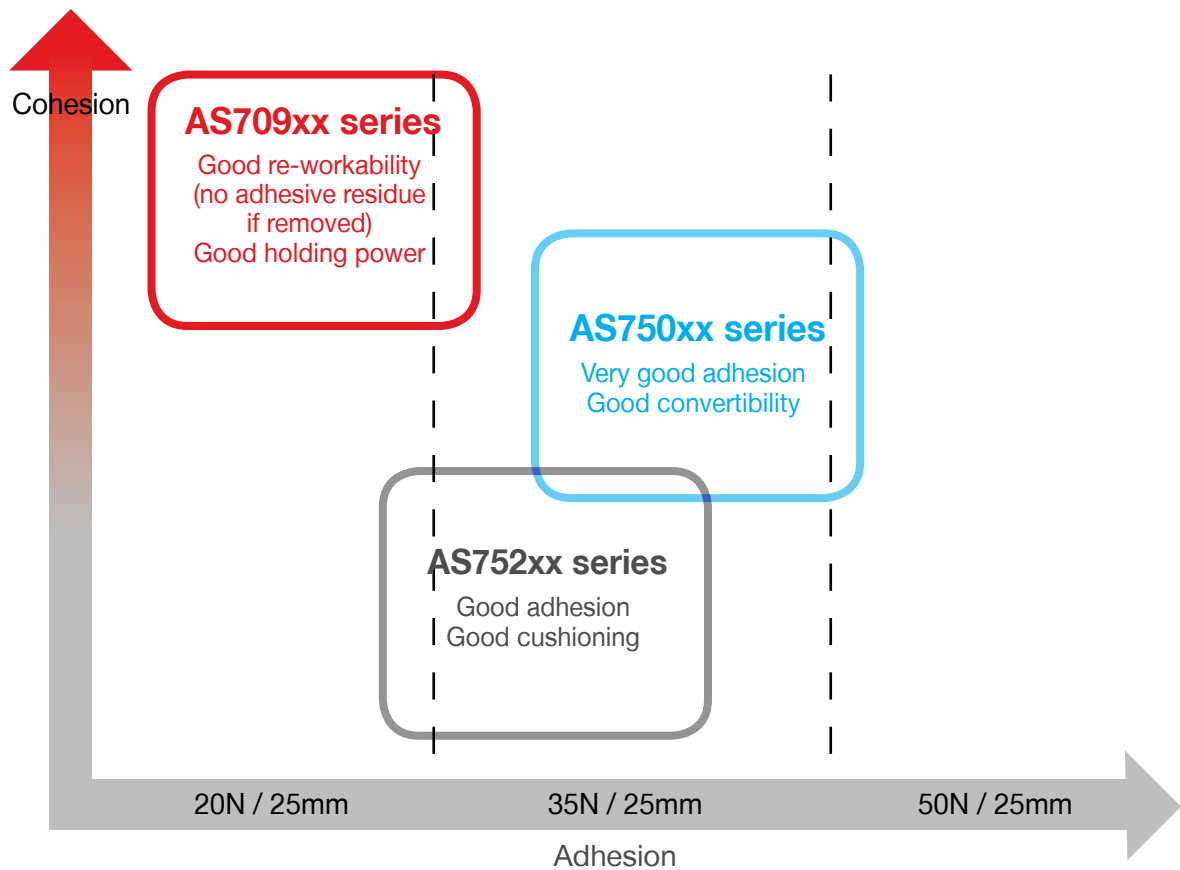
** O/L: Open side / Liner side

AFFT (Acrylic Foam Film Tape)

Scapa has developed and manufactures a high performance PET double sided acrylic foam film tape (AFFT) range, that is widely used in display, laptop, mobile phone and camera applications. These thin, high strength products give:

- Excellent long term adhesion to metals and a variety of engineered plastics.
- Vibration damping and impact resistance.
- Light shielding functionality (black colour).
- Excellent dimensional stability / die cuttability due to the PET core.

Product Selection Tool



AFFT Product Range

Product	Thickness (mm)	180° peel adhesion SS (N/25mm)	180° peel adhesion PC (N/25mm)	Dynamic shear (N/25mm ²)	Tensile strength (N/25mm)	Static shear 25°C (kg)	Static shear 93°C (kg)	Cleavage PC/SS 25°C (kg)	Features
AS70925B	0.25	20	15	450	100	2	1	1	Good reworkability
AS70930B	0.3	20	15	450	100	2	1	1	
AS75025B	0.25	20	30	300	200	2	0.75	1	Very high adhesion to plastics
AS75030B	0.3	20	35	300	200	2	0.75	1	
AS75220B	0.2	20	25	300	100	2	0.75	1	High initial tack Good adhesion Good vibration damping
AS75225B	0.25	25	30	300	100	2	0.75	1	
AS75230B	0.3	30	35	300	100	2	0.75	1	

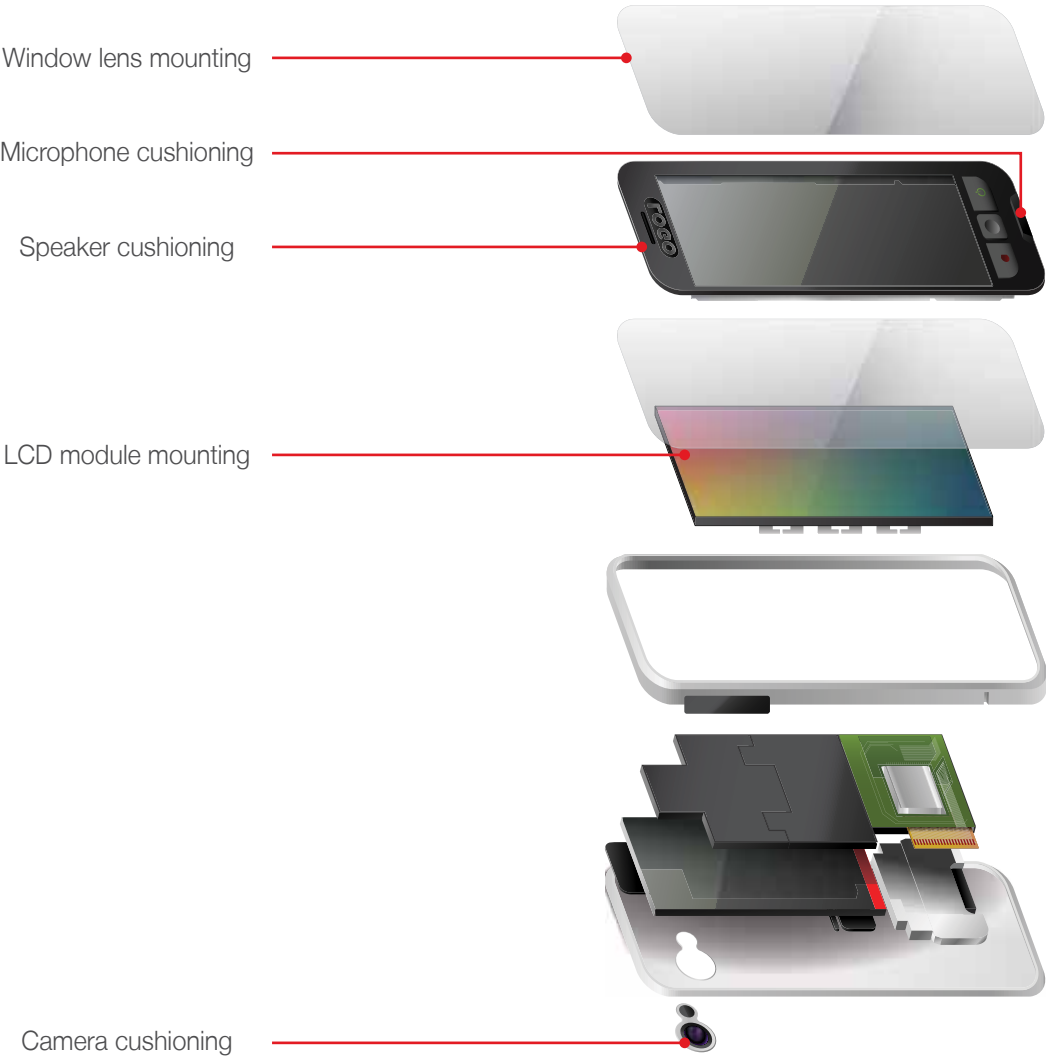
- Core Products

- 180° peel adhesion to SS/ABS 24hr dwell, dynamic shear to SS 24hr dwell, T-block to Al 72hr dwell
- Static shear: the weight held for 10,000 min with 25mm x 25mm bonding to SS
- Cleavage: the weight held for 10,000 min with 25mm x 25mm bonding to PC and "L" shaped SS



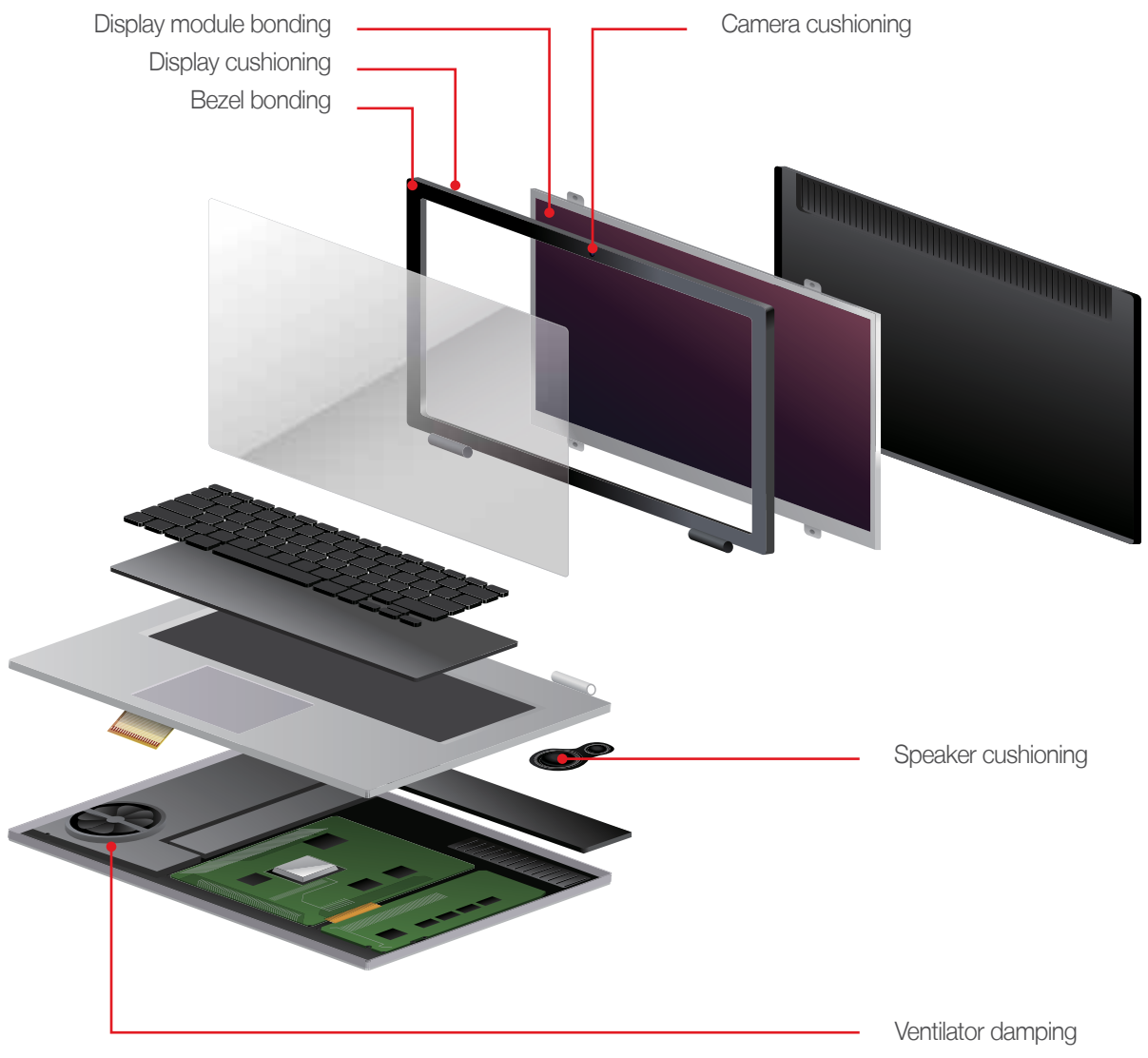
Smartphones

Scapa AFFT provides electronics manufacturers with a space saving, alternative bonding solution to mechanical fixings. This enables them to design lightweight, ultra thin devices with increased functionality for the consumer.





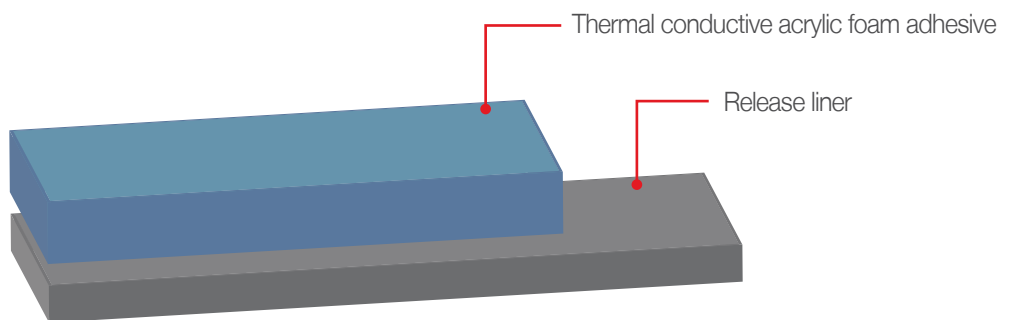
Laptops



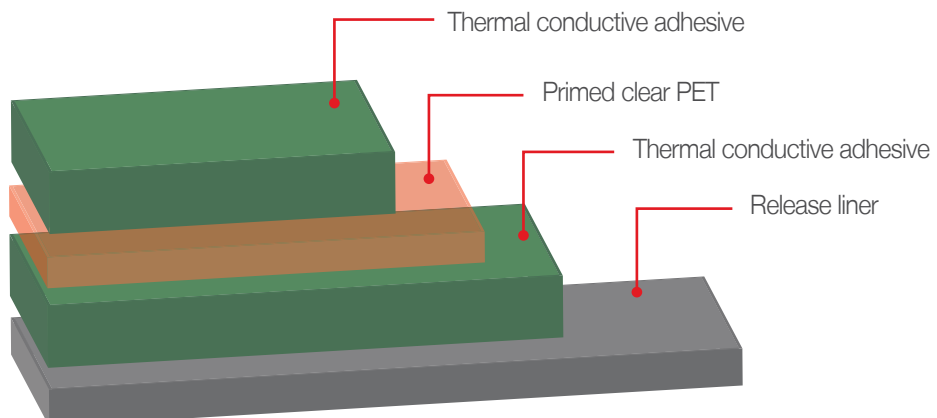
TCT (Thermal Conductive Tape)

Thermal conductive Acrylic Foam Tape and Acrylic Foam Film Tape consist of a thermal conductive acrylic foam carrier with balanced performance acrylic adhesive on both sides. This provides a preferential heat transfer path between heat generating components and cooling devices found within, for example, LED TVs, laptops, tablet PCs and electrical appliances.

Thermal Conductive Acrylic Foam Tape Construction



Thermal Conductive Acrylic Foam Film Tape Construction



Cross section images not to scale.



Acrylic Foam Tape

Product	Thickness (mm)	Density (kg/m ³)	90° peel adhesion SS (N/25mm)	Dynamic shear SS (N/25mm ²)	Static shear 25°C (kg)	Static shear 93°C (kg)	Tensile strength (N/25mm)	Thermal conductivity (W/m.K)	Features
AS1B00	0.25	1800	8	400	1	1	10	0.9	Very good thermal conductivity
AS1B60	1.0	1800	12	280	1	1	30	1	

- Core Product

Acrylic Foam Film Tape (with PET carrier)

Product	Thickness (mm)	180° peel adhesion SS (N/25mm)	180° peel adhesion Al (N/25mm)	Dynamic shear (N/25mm ²)	Static shear 25°C (kg)	Static shear 93°C (kg)	Tensile strength (N/25mm)	Thermal conductivity (W/m.K)	Features
AS71315	0.15	10	10	300	1	0.5	60	0.8	Very good convertibility
AS71525	0.25	25	25	375	1	0.5	60	0.8	
AS71535	0.35	25	25	300	1	0.5	60	0.8	

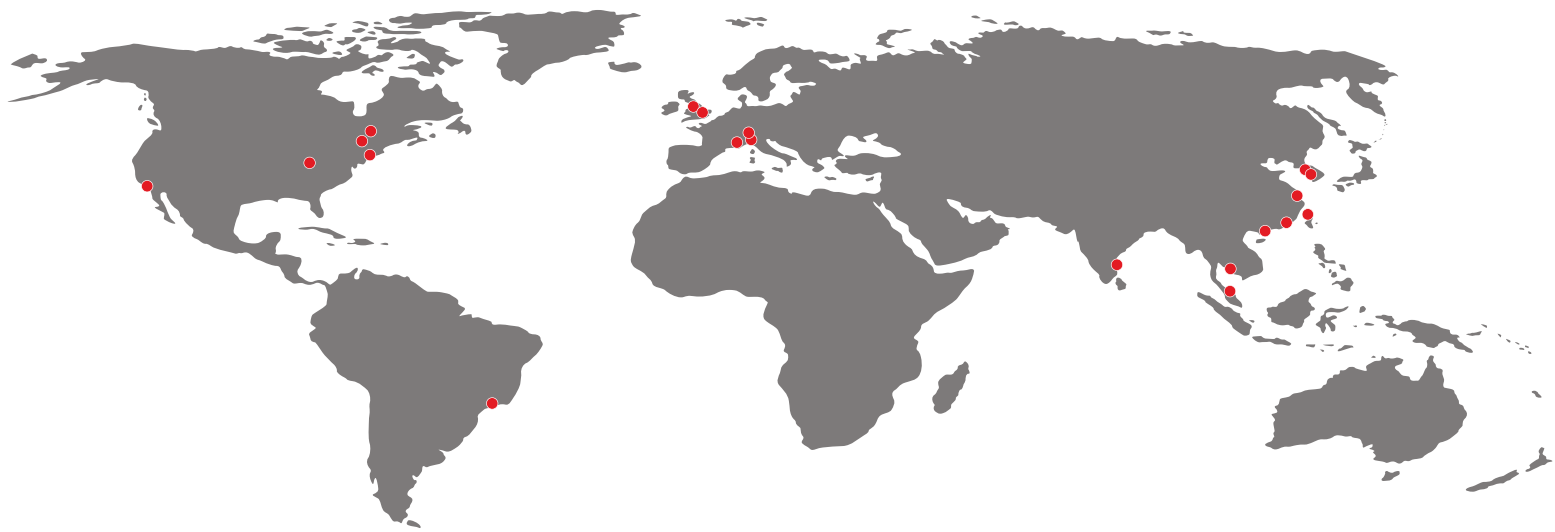
- Core Product

Notes

Scapa
America
Brazil, São Paulo
Canada, Renfrew
USA, Inglewood
USA, Knoxville
USA, Syracuse
USA, Windsor

Scapa
Europe
France, Valence
Italia, Ghislarengo
Switzerland, Rorschach
United Kingdom, Manchester
United Kingdom, Dunstable

Scapa
Asia
China, Hong Kong
China, Shanghai
China, Schenzhen
India, Chennai
Korea, AnYang-City
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