

Technibond Limited

Millboard Road Bourne End

Buckinghamshire SL8 5XD England

Tel 01628 642800 Fax 01628 642801

www.technibond.co.uk email sales@technibond.co.uk

Technibond
bonding industry together

Techniflex
acrylic tapes



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Techniflex

Solid and foamed all-acrylic tapes

What is Techniflex?

Techniflex is our brand name for a range of solid and foamed all-acrylic tapes that offer outstanding bond strength and environmental resistance. These products can often replace welds, rivets and structural adhesives. The acrylic construction is highly visco-elastic, which means that although the tape feels very solid, it will flow slightly with time to fill gaps and compensate for substrate movement, without bond failure. It is ideal for outdoor applications where repeated heating and cooling of dissimilar materials causes thermal movements, or where wind pressures constantly flex the

substrates. Also in transportation industries where continual movement flexes metal joints, and many other applications where movement and vibration are encountered. The products are nevertheless more rigid than a normal foam tape so they will provide a more solid joint in applications such as metal stiffening, and will withstand vandalism and very high stresses.

What does it do?

Techniflex products provide a very strong but flexible bond with the following

features compared to PE Foams:
 Very high bond strength, especially in resisting cleavage forces.
 High temperature resistance and shear at high temperatures.
 Very high internal strength resists splitting.
 High adhesive mass bonds better to rough surfaces.
 Resists compression, joint movement and dynamic forces.
 Superior environmental resistance due to all-acrylic construction.
 Techniflex clear provides a thick clear bond.

Product	Description	Thickness options (mm)							
		0.05	0.12	0.25	0.5	1	1.5	2	3
Techniflex THB (Clear)	A glass clear solid acrylic mass for transparent applications such as the manufacture of security glass, clear signs and mounting transparent point of sale materials. Also a good unobtrusive general purpose product.	●	●	●	●	●	●	●	●
Techniflex White	A white foamed acrylic tape providing a very high performance alternative to PE foam tapes. Market leading performance. Excellent for die cut parts.				●	●		●	
Techniflex Grey	A grey foamed acrylic tape with good compressibility for improved results on uneven surfaces. Good for metal to metal bonding where the grey colour is unobtrusive, also used on PVC extrusions.				●	●	●	●	
Techniflex Black	A black foamed acrylic tape for use where an "invisible" bond line is preferred. Also the highest shear product in the range. Excellent for die cut parts.					●		●	
Techniflex HT	A high temperature Techniflex for bonding metals prior to powder coating. Dark grey product withstands 230°C for short periods.					●			

Key ● Standard stock product
 ● Special product to order

Adhesive performance

Tack

Is a description of how sticky an adhesive feels, or in technical terms, how quickly it forms a bond under light pressure. It does not equate to bond strength, in fact high tack adhesives tend to have low performance.

Adhesion

Adhesion measures the bond between the adhesive and the substrate. The figures on data sheets usually use stainless steel as the test surface for control purposes, but this may be meaningless in your application so we also perform tests to real materials.

Shear

Shear measures the internal bond strength or cohesion of the adhesive, which is the most important factor for long-term performance. A low shear adhesive will flow like a liquid with time; a high shear adhesive behaves as a solid and will resist flow.

A high bond strength requires a good balance of shear and adhesion.

Full product data sheets available on request. Contact us today on:
01628 642800 or visit www.technibond.co.uk