

Adhesives

Pure Acrylics (PA)

Can offer the highest performance in terms of resistance to high and low temperatures, solvents, water, UV light and weathering; and long term bond strength. Because of this they tend to feel dry to the touch and require good clean surfaces and good application, and may still take 24 hours or longer to achieve their full bond strength. They will not bond well to low energy materials, but otherwise are used wherever the highest performance is required.

Modified Acrylics (MA)

An extremely versatile and varied group of adhesives with higher tack than pure acrylics, and a corresponding reduction in resistance to extremes. They accommodate a wider range of surfaces and typically bond more quickly and easily. Some of these products have a very high technical specification; others are formulated to be very cost-effective in general purpose applications.

Rubber/Resin (RR)

Rubber based adhesives have limited chemical, UV and environmental resistance, and limited temperature resistance. Within these limitations, however, they provide very good bonding to a wide range of materials including low energy materials.

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.



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Thin double sided tapes

Key products from our extensive range to suit all requirements

Product	Description	Tape thickness (mm)	Adhesive	Carrier	Temperature range °C	Shear performance	Adhesion to high energy surfaces	Adhesion to low energy surfaces	Adhesion to rough surfaces	Initial adhesion (touch)	Adhesion at low temperatures	Resistance to high temperatures	Ageing	Oxidative performance	UV resistance	Plasticizer resistance	Solvent resistance
431	Conformable cloth for instant bonding that also offers unique peelability for processing or short term display.	0.30	MA	Cloth	-40 to 100	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
557	Classic heavy-duty high coat weight white double sided tape. Offers good gap filling with an immediate bond. Typical applications: light weight extruded trims and de-cuts for mouldings.	0.27	MA	PVC film	-40 to 70	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
9274	Higher coat-weight version of above. Particularly suitable for rougher surfaces and lower energy materials.	0.26	MA	uPVC film	-40 to 70	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
567	Aggressive adhesive system on a clear filmic carrier. Works well on low energy materials and rougher surfaces.	0.22	MA	PP film	-40 to 120	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
569	The highest overall performance product in our thin tape range. 569 offers outstanding high peel and shear, near clarity, excellent adhesion to most rubbers and low energy surfaces. Product has excellent die cutting properties. 569 is also available in thinner constructions.	0.21	MA	PES film	-40 to 150	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
585	This unique adhesive system allows for significant movement between surfaces. Pure Acrylic adhesive offers high temperature performance, low fogging but unusually for a pure acrylic will also bond to foams, felts and semiporous materials.	0.14	PA	Tissue	-40 to 120	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
555	Our most successful thin tape due to its combination of price and performance. This product will bond to most surfaces and withstand most environmental conditions.	0.13	MA	Tissue	-40 to 120	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
575	New generation pure acrylic which unusually will bond to lower energy materials, whilst retaining excellent UV and plasticizer resistance, low fogging and long term aging properties.	0.11	PA	Tissue	-40 to 120	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
526	An economical rubber resin adhesive, which combines adhesion to low energy materials with good performance at room temperature.	0.10	RR	PP film	0 to 70	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
501	This product uses the same adhesive as 526 on a tissue carrier which is easy to tear by hand.	0.09	RR	Tissue	0 to 70	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
594	Finger-ilt presentation allows for easy removal of the liner by hand. Available in a range of standard widths.	0.09	RR	Tissue	0 to 70	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆
538	Our perm/peel product uses a permanent acrylic adhesive on the open side, combined with a peelable acrylic on the closed side for point-of-sale and similar applications.	0.05	MA/PA	PES film	-20 to 90	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆

Performance key

- Poor
- ◐ Medium
- ◑ Good

- Very Good
- Excellent

Surface energy

The chemical nature of the surface, its attractiveness or ease with which it can be wetted by an adhesive. Also known as **Surface Tension**.

High

Surface energy materials: glass, metals, paper and wood. Good results with all adhesive types; maximum bonds.

Medium

Surface energy materials: acrylic, nylon, polyester, polycarbonate, PVC and most paints. Generally good results but pure acrylics may not give full bond.

Low

Surface energy materials: polyethylene, polyethylene, polypropylene and some powder coated paints. Difficult, pure acrylics will not bond well, modified acrylics may not give full bond.

Very Low

Surface energy materials: PTFE and silicone rubber. Acrylics and rubbers will not bond, requires silicone adhesive.

Samples



A low energy surface repels liquids, so an adhesive will not easily wet out.

Full product data sheets available on request. Contact us today on:

01628 642800 or visit www.technibond.co.uk