

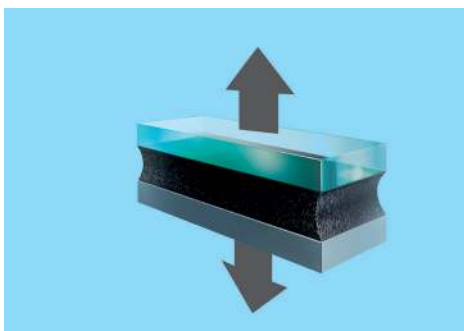
tesa® ACX^{plus} FOR APPLIANCE APPLICATIONS

Constructive bonding of components used during the production of appliances can be very challenging because traditional mechanical fasteners like rivets, welds, and screws may not be suitable for dissimilar materials, such as glass, metal, and plastics. Adhesive tapes, however, permanently and gently join materials without causing damage.

tesa® ACX^{plus} is a category of double-sided acrylic foam tapes for constructive bonding, and it is our highest performing product line. It is the perfect choice for bonding components, such as bumper rails, decorative plastic or metal trims, and oven doors, to name a few. The results speak for themselves – components are permanently attached in a fast and secure way, and are aesthetically pleasing.

Features and benefits of using tesa® ACX^{plus}

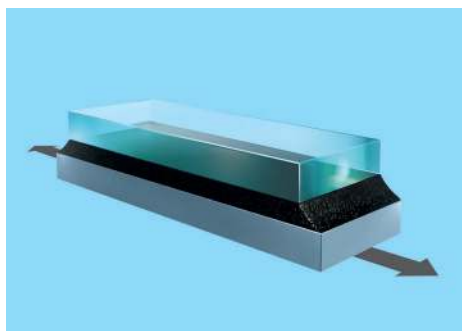
In addition to replacing traditional fasteners such as screws, tesa® ACX^{plus} tapes also replace liquid glue, which eliminates the mess and dwell time for curing. This, in turn, makes the production process faster and more flexible. tesa® ACX^{plus} tapes can also be die cut, which means a customized shape that exactly matches the component is possible. Combining that with the availability of various colors and thicknesses, the right constructive bond is guaranteed each time.



Bonding power

tesa® ACX^{plus} creates a powerful bond, even between materials with different surface characteristics, such as glass, plastic and metal. Our product performance characteristics ensure:

- Reliable bond to glass, aluminum, steel and plastic even after short dwelling time
- Securing parts' edges against lifting
- Very high reliability throughout the appliance's lifetime
- Design flexibility with limited bonding area



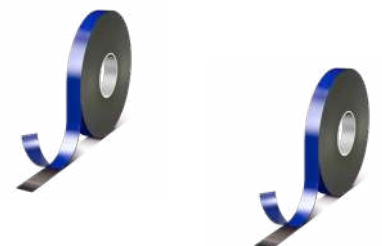
Stress dissipation

During the life of any appliance, static and dynamic stresses act upon the constructive bond between the appliance body and the component. These can be caused by different thermal elongations of the respective substrates. Due to the viscoelastic behavior of tesa® ACX^{plus}, the stresses can be optimally dissipated, ensuring a secure bond, even during temperature changes.

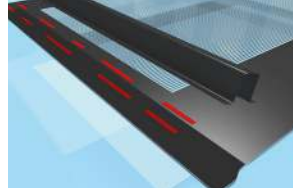


Temperature and weather resistance

The reliable constructive bonds of tesa® ACX^{plus} are resistant to extreme temperatures and temperature changes, different weather conditions, UV radiation, and also chemical influences.



tesa® ACX^{plus} bonding solutions can outperform conventional fastening methods by optimizing our customers' production processes and the quality and aesthetics of their products.



Mounting Bumper Rails

Constructive Bonding & Sealing of Oven Doors

Mounting of Displays

Deco Glass Mounting

Product	Thickness of tape [mil]	Adhesive	Color	Backing	Liner Options	Temperature resistance		Dynamic adhesion performance			Static Shear
						Short term minutes [°F]	Long term month [°F]	90° peel adhesion [lbs/in]	Dynamic tensile test [psi]	Dynamic cleavage test [lbs/in]	Room temperature 1.1 lbs [min]

Best in Class | Suitable for extreme weather conditions

tesa® 7072	19.7	Pure acrylic	Deep black	Acrylic foam	White PE-coated paper ----- Blue HDPE Film	428°F	248°F	11.4	≥73	≥114	≥10,000
tesa® 7074	39.4	Pure acrylic	Deep black	Acrylic foam				17.1	≥73	≥120	
tesa® 7076	59.1	Pure acrylic	Deep black	Acrylic foam				20.0	≥68	≥125	
tesa® 7078	78.7	Pure acrylic	Deep black	Acrylic foam				22.8	≥65	≥131	

High Adhesion | Suitable for indoor applications

tesa® 7062	19.7	Tackified acrylic	Deep black	Acrylic foam	White PE-coated paper ----- Blue HDPE Film	338°F	158°C	13.7	≥131	≥143	≥10,000
tesa® 7063	31.5	Tackified acrylic	Deep black	Acrylic foam				17.1	≥160	≥126	
tesa® 7065	47.2	Tackified acrylic	Deep black	Acrylic foam				22.8	≥131	≥126	
tesa® 7066	59.1	Tackified acrylic	Deep black	Acrylic foam				25.7	≥116	≥183	

Product	Thickness of tape [mil]	Adhesive	Color	Backing	90° peel adhesion	Cold-shock performance	Dynamic shear resistance	
					Steel RT 3 days [lbs/in]	Clear coat* -30°C	Steel after climatic cycle 9 days [psi]	Steel after 90° aging 500h [psi]

Cold Shock | Suitable for extremely low temperatures and physical stress

tesa® 7805	19.7	Modified acrylic	Deep black	Acrylic foam	12.0	Excellent	133	225
tesa® 7808	31.5	Modified acrylic	Deep black	Acrylic foam	14.8	Excellent	132	247
tesa® 7811	43.3	Modified acrylic	Deep black	Acrylic foam	18.3	Excellent	112	232
tesa® 7812	47.2	Modified acrylic	Deep black	Acrylic foam	18.3	Excellent	112	218
tesa® 7815	59.1	Modified acrylic	Deep black	Acrylic foam	20.0	Excellent	102	210

* tesa standard clear coat