

# TAPECONCURRENT

## Technical Data Sheet

### 8809R Acrylic foam tape

#### Application

A double sided high performance acrylic based adhesive tape, which is especially designed for a wide variety of materials with high and medium surface energy such as glass, glass / epoxy, sprouts, stainless steel, and galvanized steel. The tape is capable of absorbing the differing thermal expansions of the two different materials. This type maintains high impact resistance even at temperatures below 0 °Celsius.

8809 has a very high transparency and are very well suited for the bonding of high and medium energy surfaces as well as glass and various transparent plastics where a highly transparent bond is required and no stress corrosion may occur. Due to their conformability they are capable of bonding a variety of different thin and structured materials full surface and tension free. The tapes are capable of absorbing the differing thermal expansions of the two different materials. Important is to avoid stress and tension on the bond during application. This 49-series maintain high impact resistance even at temperatures below 0 °Celsius. More advantages: vibration dampening, very good sealing properties, very good resistance to weathering, aging, yellowing (UV influence), chemicals, plasticizers, resulting in excellent long term stability. Applications are attaching light box / neon advertisements and signs, strip lighting assemblies etc.

#### General Information

8809 has a closed cell structure which is wind and water resistant. Because the tape is 100% acrylic based, it will form an almost indestructible bond between the materials. The tape is resistant to UV, ageing, softening agents and solvents (good plasticizer resistance). It bonds immediately and offers a perfect resistance to the peel and shear loads that can affect a bond. This type is very well suited to absorb dynamic loads as it is viscoelastic, it can act as a sealant, form a permanent tension free bond, and is suitable to bond many different types of synthetic materials. The manufacturers facilities have more than 15 years of experience producing this acrylic foam tapes and are ISO 14001, ISO 9001 and ISO/TS 16949 certified.

**Structure**

Tape type	8809
Adhesive	High performance Acrylic
Adhesive carrier	Conformable closed cell acrylic foam
Description	Transparent
Coating	Clear(liner side) Clear (open side)
Thickness	2.0 mm
Tolerance	+ 0,1 mm
Density	900
Tape color	Transparent
Liner	Red PE film (paper liner is optimal)

**Tape Characteristics**

Tape type	8809
Peel Adhesion (ASTM D 3330)	330 N/100mm
Normal Tensile ASTM 897)	590 kPa
Dynamic Shear Overlap(ASTM1002)	520 kPa 20min.
Static Shear: (ASTM 3654)	440 kPa

Solvent Resistance:	Excellent
UV Resistance:	Excellent
Temperature Resistance:	
Long term:	100 °C
Short term:	160 °C

**Available Sizes**

Standard Length:	33,0 mm
Maximum Length:	66,0 mm
Core Diameter:	75,0 mm
Width Tolerance:	± 0,4 mm

## **Manual Production**

Every good bond starts with good preparation. This preparation consists of several steps, such as cleaning, use of a primer and the right working area. Please ensure that your workshop area is in a dust free environment and has a minimum room temperature of ca. 15 °Celsius.

## **Cleaning**

Before you begin, always check how dirty the materials that you want to bond are. If they are highly contaminated with oil or grease, clean it with an industrial cleaner or a heptanes solution. Even when the surface is clean, use our cleaner, which is a 100% Isopropanol solution. Ensure that you wipe the surface in just one direction, so that the dirt is wiped off. If you do not do this you will always leave some dust or dirt on the substrate.

## **Quality**

The quality of the bond also depends largely on the contact that the two surfaces make with each other. Because of its viscoelasticity, the tape is able to flow into the microscopic pores of the materials. However, if there is a big surface mismatch or if the materials are not pressed together the bond will reach its end strength more slowly, or not at all. Therefore we advise you to put pressure on the bond of at least 100 kPa to allow the tape to make a perfect bond between the two materials

## **Maximum Bond**

The end strength will be reached much faster if you use a primer. This enables the tape to reach its end bond within 5 – 20 minutes instead of taking 72 hours. On making the bond the tape without the primer normally has 50% of its final bond strength and with use of the primer this will be boosted up to 80%. If you have any questions regarding the primer, the manual or the mechanical application, please contact our technical sales team.

## **Storage & Shelf life**

Please make sure that the tape is stored in its original packaging, in a dry place and at a temperature of preferably between 4 °C and 38 °Celsius. When the tape is stored under the right conditions it has a shelf life of 18 months.

## **Important Information**

All technical data in this product data sheet is based on our own experience and external test institutes. These values are representative and cannot automatically be used for your own specific application. You will first need to test whether the tape is suitable for your application or project.

We must point out that you need to follow the rules and regulations that are applicable in the state, county or country that you are using our product in.

## **Disclaimer:**

All statements, technical information and product recommendations are based on tests in our laboratories we believe to be reliable. In all cases the user should however determine. The suitability of the product for his intended use and user assumes all risk and liability whatsoever in connection therewith. Neither seller or manufacturer shall be reliable for any loss or damage – direct, incidental or consequential – arising from the use of the product.

Details of test methods are available on request.