tapespec™

STICK WITH QUALITY

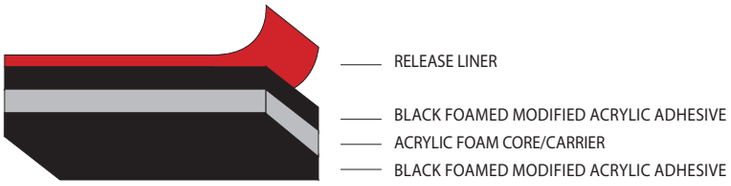
2045 DATASHEET

ULTRA HIGH BOND BLACK FOAMED ACRYLIC DOUBLE SIDED TAPE

DESCRIPTION

Tapespec 2045 UHB Foamed Acrylic Double Sided tape has excellent dimensional stability & strength. The durable closed cell foamed acrylic carrier is coated both sides with a high bond, long life modified acrylic adhesive. Used as a permanent adhesive system for both interior and exterior applications. Resistance to most solvents, temperature extremes and UV light.

TAPE STRUCTURE



FEATURES & BENEFITS

- A multi-purpose UHB product with excellent adhesion to a wide variety of surfaces.
- Suited for use in many interior & exterior industrial applications.
- Used in many industrial application to replace or work in conjunction with rivets, screws, spot welds & liquid adhesives.

APPLICATION GUIDE

- Excellent bonding to clean aluminium & steel surfaces, glass & a wide variety of plastic substrates - (such as acrylic & polycarbonate).
- Good dimensional stability for effective sealing and bonding.
- For bonding automotive & decorative trim, bonding panels to metal frames & onto glass substrates.
- Adhesion to HSE (High surface energy substrates) - High
- Adhesion to LSE (Low surface energy substrates) - Medium

NOTE: Testing is always recommended on all surfaces for suitability. A primer system maybe required for bonding to LSE substrates. Rolls can slit to various width sizes to suit the application. Suitable for die cutting applications - contact tapespec for further details.

TECHNICAL INFORMATION

Carrier	Foam Acrylic - Coated both sides with Modified Acrylic Adhesive.
Adhesive	Modified Acrylic Adhesive
Colour	Black
Release Liner	Red PE Film Liner
Thickness	1.1 mm (tolerance + / - 10%)
Density	Firm - 930 Kg/m3
Adhesion to steel 180° Peel Adhesion Power Test - bond at (RT) room temperature & test after 30 minutes.	20 min (RT) 2000 gf/10mm 24 hrs (RT) 2200 gf/10mm 250hrs 80°C 1800 gf/10mm 250hrs -20°C 1600 gf/10mm Speed: 300+/- 10mm/min Tape Width: 10mm Backing: 25 micron polyester film
Static Shear Measured at various temperatures & gram loadings on stainless steel. 3.22 cm^2 overlap. Holding a load for 7 days	Temperature Load Result 93°C 500g OK 120°C 250g OK
Dynamic Shear Measurement of the bonding load at room temperature - after 30 mins. Speed: 200+/- 10mm/min Tape Width: 10mm x 10mm Backing: 75 micron polyester film	RT 20 mins 7.5 kgf/cm^2 RT 24 hrs 7.9 kgf/cm^2 RT 48 hrs 8.2 kgf/cm^2 RT X 100% RH 250 hrs 8.5 kgf/cm^2 80°C 250 hrs 8.6 kgf/cm^2 -20°C 250 hrs 8.1 kgf/cm^2
Temperature Resistance Temperature measurement -bonding tape at room temperature & for 1 hour with a weight - 500g & in an oven. Increase of temperature 3°C every 5 min & record falling temperature. Substrate: Stainless Steel Tape Width: 20mm x 20mm Backing: 75 micron polyester tape	H/Rate = 120°C Range: - 40°C to + 120°C & 149°C (for short periods) Note: All installation instructions must be followed to ensure correct tape to surface bond.
Storage Temperature	12°C to 25°C - not in direct sunlight.
Shelf Life	12 Months - from date of manufacture.
Roll Size	33 meter length (widths slit to order)

SURFACE SUBSTRATE CONDITION & PREPARATION

The surfaces to be bonded must be dry & free from any contamination including dust, oils, & fats, oxidisation, release agents & any other known contamination.

The correct choice of surface cleaner depends on the surface properties. Essentially non-greasy cleaners are recommended including isopropanol alcohol (mixed 50/50 with clean water) & acetone. Cleaning cloths must be clean, grease & fat free with no loose fibres or cloth particles.

The bond strength is dependent upon the contact pressure of the adhesive to substrate. To assist this process all adhesive tapes require firm hand or roller pressure.

BONDING APPLICATION TEMPERATURE

We recommend that the product, substrate & environment should be between +15°C & 25°C. Ensure that the adhesive product & substrates are allowed time to adjust to the environment temperature before bonding.

For product storage we recommend that products are stored in their original packaging under dry conditions, ideally at room temperature but not warmer than +30°C. High relative humidity & direct sunlight must be avoided at all costs.

For more detailed handling instructions please refer to our comprehensive application guide.

PRODUCT USE

The information in this guide is based upon our knowledge & practical experience. This data is intended only as a source of information given without guarantee & does not constitute a warranty. Due to the wide variety of possible uses & applications, customers should independently determine the suitability of these products for their specific purpose, prior to use. Trial samples are provided free of charge & without obligation.

For detailed surface preparation & application information please refer to our detailed Surface Condition & Preparation Guide.