

VHB Very High Bond Acrylic foam clear

- Description:** This tape is a clear foamed acrylic adhesive tape with a special composition giving excellent all-round bonding properties and unique characteristics that give very high performance in the most demanding of applications. The tape has very good transparency which is important in many applications where the tape should be invisible.
- Carrier:** The tape carrier is a clear foamed acrylic.
- Adhesive:** The adhesive used is a high performance acrylic pressure sensitive adhesive specially formulated to give top bonding properties in the most demanding conditions. The adhesive gives excellent peel and shear performance.
- Liner:** The tape is protected by a high density polyethylene filmic liner.
- Application:** This tape is ideal for bonding glass and plastics, due to its high clarity it can be used in the manufacture of safety and security glass, applications in the window industry, in conservatory (winter garden) manufacture, for bonding transparent plastics, applications in the sign industry, display cabinets and other point of display applications. It is also useful in applications where a high temperature performance is required.
- How to apply:** To achieve the best adhesion results the surfaces to be bonded must be clean, dry and free from dust and loose particles. The ideal cleaning method should incorporate use of a solvent such as isopropyl alcohol. To attain the optimum bond strength sufficient pressure should be applied to the tape to ensure good adhesive "wet out" on the substrates. The tape is pressure sensitive adhesive and the best results are achieved with maximum surface contact under pressure. The bond strength builds to its optimum strength after 24 hours, this can be reduced by exposing the bonded materials to temperatures of 70°C for approximately 1 hour. Application temperature ranges between 20°C-35°C. On certain substrates a primer may be necessary or a seal if the surface is porous. Surfaces such as plasticized plastics, and other low energy surfaces will require priming.

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Technical description

BASE MATERIAL
 COLOUR
 ADHESIVE
 THICKNESS
 ELONGATION
 90° PEEL ADHESION
 After 20 minutes
 After 24 hours
 After 72 hours
 TENSILE STRENGTH
 (50mm/min., 25mm x 25m, 24hr)
 SUS-304 (T-Block)
 DYNAMIC SHEAR
 (50mm/min., 25mm x 25m, 24hr)
 SUS-304
 PVC Plate
 ABS Plate
 STATIC SHEAR
 (Falling time of 25mm x 25mm tape with 1kg weight at 80°C)
 SERVICE TEMPERATURE
 MINIMUM
 MAXIMUM

Technical values

ACRYLIC
 CLEAR
 PRESSURE SENSITIVE ACRYLIC
 1.0MM
 900 +/- 100 %
 (ASTM D-3330)
 4.000 GR.F. / 25MM
 5.500 GR.F. / 25MM
 6.500 GR.F. / 25MM
 (ASTM D-897)
 35 Kgf / 25x25mm²
 (ASTM D-1002)
 35 Kgf / 25x25mm²
 30 Kgf / 25x25mm²
 30 Kgf / 25x25mm²
 (ASTM D-3654)
 10.000 minutes
 -20°C
 180°C

UNLESS OTHERWISE STATED ALL OF THE ABOVE FIGURES ARE AVERAGE VALUES.

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