

Description

Polygrip Hotbond is a light-yellow coloured, fast drying synthetic rubber based adhesive. It is specially designed adhesive which can provide heat resistance up to 170°C. It provides excellent tack and instant bonding to most demanding application of furniture industry. It is most suitable for curved, spherical and round surface for quick bonding without spring back action.

Advantages

Excellent coverage
Fast drying and instant bonding
Heat resistant up to 170°C
Instant strength development
Mild smell
No harmful benzene

Applications

In furniture industry for bonding of below substrates:
Laminate to laminate
Metal to laminate
Ply to laminate
Ply to PVC laminate

Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Light-yellow
Density at 30°C	g/ml	-	0.84 - 0.89
Viscosity at 30°C	c Ps	ASTM D2196	2,200 - 3,000
Tack retention time ¹	Minutes	-	Max 10

¹Tack retention time (open time) is generally measured after evaporation of solvent once adhesive applied in thin film. It may vary depending upon ambient temperature and humid conditions.

Process of application

Surface preparation: Ensure that substrates to be bonded are clean, dry and free from oil, grease and foreign particles such as dust and rust.

Application method: Stir adhesive well and make it homogeneous prior to use. Apply the adhesive first on non-porous surface and then on porous surface. Apply adhesive uniformly in thin layer on both the substrates to be bonded with brush, spatula or any suitable tool. Allow evaporation of solvent from adhesive layer. The evaporation of solvent may take 3 minutes to 5 minutes, which depends upon ambient temperature and humidity. Assemble both the substrates with uniform contact pressure to achieve intimate contact without air pockets. The optimum bond strength is achieved after 24 hours.

Packaging

Polygrip Hotbond is available in 0.2 L, 0.5 L and 1 L MS drums. Other packing may be considered on request.

Storage and handling

Polygrip Hotbond should be stored in cool and dry place away from moisture, heat and direct sunlight. It contains highly volatile solvents, which will release during application, processing and use. These volatile solvents are highly flammable, hence adhesive must not come in contact with heat, spark and necked flame. This product has a shelf-life of 1 year if stored in its original container between 2°C and 40°C away from humidity and excessive heat. Please refer to the Safety Data Sheet (SDS) for detailed instructions on storage and handling.

POLYGRIP® HOTBOND

Technical Data Sheet | Polymers Business



Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, it should be washed off immediately with soap and warm water. Proper ventilation must be provided to shop floor where adhesive is used. Avoid breathing vapours, mist or gas. Please refer to the SDS for detailed safety instructions.

Spills and disposal

In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

Contact

E-mail: support_polymers@atul.co.in
Website: www.atul.co.in

Note

Polygrip® is a registered trademark of Atul Ltd.

Manufacturing site

Atul 396 020, Gujarat, India
Telephone: (+91 2632) 230000 | 233261
E-mail: contact@atul.co.in

Disclaimer: The information contained herein is for information purposes only. While enough care is taken in disclosing the information, users of this information are advised to cross-check the same depending upon use | application. Atul Ltd does not give any assurance or warranty or guarantee in regard to the accuracy or completeness of the information and no claim or liability will be accepted or entertained in regard thereto. Atul Ltd makes no warranty of any kind, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or performance or usage of trade.