

POLYGRIP® EXPO-1009

Technical Data Sheet | Polymers Business



Description

Polygrip EXPO-1009 is golden-yellow, fast curing and high heat resistant synthetic rubber base adhesive. This adhesive is versatile and suitable for most of the substrates including rubber, leather, wood, rexin, canvas, and foams. This adhesive is also suitable for adhering similar and dissimilar substrates to achieve strong bonds. High coverage can be achieved if used at appropriate environmental and processing conditions.

Advantages

- Fast drying
- Heat resistant bonds
- High productivity
- Higher coverage
- Low absorption on foam surface
- Mild smell
- No harmful benzene
- Rapid strength development

Applications

- Automotive interiors
- Carpet laying
- Furniture
- Insulation
- Leather articles
- Mattresses
- Shoe manufacturing

Typical specifications

Properties	Unit	Test method	Values
Appearance	-	Visual	Golden-yellow
Density at 30°C	g/ml	-	0.85 - 0.89
Viscosity at 30°C	c Ps	ASTM D2196	2,000 - 3,500
Tack retention time ¹	Minutes	-	Max 30

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 humidity 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 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 5 minutes to 10 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 EXPO-1009 is available in 0.1 L, 0.2 L, 0.5 L, 1 L, 2 L, 5 L and 30 L MS drums. Other packing may be considered on request.

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Storage and handling

Polygrip EXPO-1009 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.

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

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Note

Polygrip® is a registered trademark of Atul Ltd.

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