Permabond®
Engineering Adhesives

FRIDGE BONDING ADHESIVE - UV6357

Permabond UV6357 is a highly reactive UV light-curing adhesive that offers outstanding thermal & environmental resistance.

Originally developed for a manufacturer of freezer and refrigerator components, Permabond UV6357 provides excellent adhesion on glass and metals, as well as on rigid thermoplastics such as ABS, PVC and Nylon. It's particularly well suited to bonding dissimilar substrates such as glass to metal or glass to plastics, and bonds well even to epoxy-coated metals.

UV6357 is highly reactive to UV light and will cure through fritted glass. It has outstanding thermal resistance, particularly at very cold temperatures. Its high elongation at break means it readily withstands the thermal expansion and contraction caused by thermal cycling and thermal shock, reducing the risk of cracking or damage to substrates. It demonstrates excellent long-term durability at temperatures below freezing compared to competitor products.

Additional features include its high strength and impact resistance, flexibility and resistance to cleaning chemicals, making appliances straightforward and practical to clean without weakening the adhesive joint.

KEY FEATURES:

- Outstanding thermal resistance
- Withstands thermal cycling
- Very strong bonds on glass, metals & plastics
- Good chemical resistance
- High toughness and flexibility
- Very high elongation at break

IDEAL FOR BONDING:

- ABS
- Acrylic
- Aluminium
- Glass
- Mild Steel
- Nylon
- PC
- PVC
- Stainless Steel

... & many more

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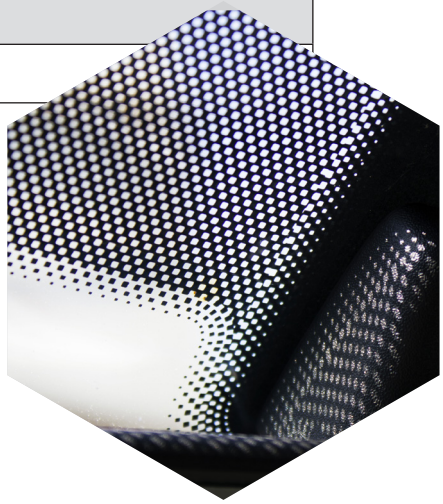
TECHNICAL DATA

DESCRIPTION

The following technical data for Permabond UV6357 is a guideline and does not constitute a specification. For full technical information, please refer to the technical data sheet, available at www.permabond.com. Please contact Permabond to discuss your bonding project.

	UV6357
Description	Temperature-resistant UV light-curing adhesive
Appearance	Transparent
Features	High resistance to cold, highly reactive, versatile
Viscosity	35,000 mPa.s
Max. Gap Fill	0.2mm
Elongation	440%
Cure Wavelength	365-400nm (ideal with LED lamps at 365nm)
Storage	5 to 25°C
Packaging	10x50ml tubes, 10x300ml cartridges



What is fritted glass?

Fritted glass refers to glass that has a ceramic material, usually made from powdered glass, fused onto its surface. This process involves applying a layer of the frit (a type of glass powder) to the glass, which is then heated until it melts and bonds to the surface. The resulting frit creates a textured, opaque, or coloured coating on the glass. Fritted glass is commonly used for:

- UV protection: The frit can act as a barrier to ultraviolet (UV) light.
- Aesthetic design: It can be used for decorative purposes, adding patterns or colours to the glass.
- Improved adhesion: It provides a better surface for adhesives to bond to, making it ideal for certain manufacturing processes, especially in applications like bonding glass to metals or other materials.

Permabond UV6357's high reactivity means it cures effectively even when applied over glass that has a fritted coating, allowing the UV light to penetrate and cure the adhesive beneath it.

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