

SMILE PLASTICS

HOW TO
JOIN
MATERIALS –
ADHESIVES
FOR PET AND
HIPS

ADHESIVES FOR PET AND HIPS

General adhesion advice for PET and HIPS

For bonding PET and HIPS, many adhesive manufacturers offer products designed for polystyrene that may be suitable. A two-part epoxy is often effective, but always check your specific product for compatibility. If bonding edges, some solvent-based adhesives, such as Tensol 12 or plastic weld, may work.

Additionally, solid surface structural adhesives are compatible with a wide range of materials (except HDPE). Most solid surface adhesive manufacturers provide technical support to help with selection. However, it's important to note that not all material combinations will bond perfectly.

PET HIPS CLEAR

Smile Plastics supplies its proprietary PET HIPS CLEAR adhesive for **professional fabricator use within the UK only**.

It is a high-strength, two-component transparent Methacrylate Adhesive designed for bonding plastics and composites. It combines shock resistance and toughness from hybrid rubbers with high tensile shear strength from an advanced liquid plastic resin. Its high-viscosity, non-slump formula prevents stress cracking and creates an ultra-strong bond with excellent chemical and environmental resistance.

Typical applications

Smile Plastics PET HIPS CLEAR is very versatile, and can bond a wide variety of substrates to plastic without

Instructions for using Smile Plastics PET HIPS CLEAR adhesive

Always consult the data sheets and SDS before using Smile Plastics PET HIPS CLEAR for the first time.

Adhesive application instructions

1. Prepare the surface as needed before applying the adhesive.
 2. Remove the cap and securely attach the mixer nozzle.
 3. Dispense a small amount of adhesive to ensure proper mixing.
 4. Apply the adhesive to one surface and carefully assemble the components, ensuring, close contact. Use clamps if necessary.
- NOTE: It is always easier to remove any excess adhesive prior to cure using a suitable cleaner, such as white spirit or alcohol.
5. Allow the adhesive to reach handling strength before moving or unclamping the components.

Additional guidance

- The adhesive requires tight surface contact for proper bonding. If gaps exist, the bond may weaken over time. It may also be more noticeable once cured.
- PET HIPS CLEAR cures quickly, so work in small sections and prepare surfaces in advance. The adhesive sets in about 2 minutes.
- We strongly recommend conducting tests to determine the most suitable adhesive and application method for your specific needs. Resin adhesives can fill small gaps, and adding an oil or powder pigment can help create a colour-matched seam or edge/surface filler, if required.

FAQS

ADHESIVES

FOR PET HIPS CLEAR

How do I request adhesives from Smile Plastics?

We do not offer direct online ordering for adhesives. Instead, please complete our online adhesive request form, which includes the following:

- Type of adhesive(s) required
- Quantity
- Any accessories needed (e.g. nozzles, applicators)

Once submitted, you'll be contacted by a member of our team to complete your order.

What is the lead time for PET HIPS CLEAR adhesive?

PET HIPS CLEAR adhesive is typically available from stock, with a lead time of 3–5 working days from payment confirmation to dispatch.

How should I store PET HIPS CLEAR adhesive, and what is the shelf life?

PET HIPS CLEAR adhesive should be stored unopened in a cool dry location, out of direct sunlight. Stored correctly, it can offer a **6-month shelf life** from manufacture. Please plan usage accordingly and refer to the expiry date marked on the packaging for best results.

Can I buy adhesives as a standalone product?

We strongly encourage purchasing adhesives alongside Smile Plastics sheets. One-off adhesive-only orders are evaluated individually and may be subject to additional onboarding and admin processes.

Why can't I add adhesives to my cart on the website?

To ensure safe use and responsible purchasing, adhesives are not available as open products or via e-commerce checkout. This helps us conduct proper due diligence before completing a purchase.

Are adhesives available internationally?

Currently, our adhesives are available only within the UK. If you're based outside the UK, please consult the **General Adhesion Advice** above for alternative solutions compatible with Smile Plastics materials.

Do I need to complete an onboarding form?

If you are purchasing adhesives only, you will be required to complete an onboarding form before we can issue a proforma invoice. This process is handled manually and can take additional time.

What are the delivery costs for adhesives?

We offer a flat delivery fee of £5 for all UK mainland orders of 1–24 adhesive units.

If adhesives are included in a palletised sheet order no additional shipping cost will apply — adhesives will be shipped separately as part of the overall order.

Will the adhesive be shipped separately from sheet orders?

Yes. Due to the nature of the product, adhesives must be packaged and shipped separately, even when ordered alongside Smile Plastics sheets.

MATERIALS REIMAGINED



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Certificate Number 19268
ISO 9001, ISO 14001