

SMILE PLASTICS

Re-worked Ltd. T/A Smile Plastics, Kingsway, Fforestfach, Swansea SA5 4DL
+44(0)1792 381370 info@smile-plastics.com www.smile-plastics.com

TDS

PET HIPS CLEAR

DESCRIPTION

PET HIPS CLEAR is a two-component transparent structural Methacrylate Adhesive, designed for bonding of high strength plastic and composite applications. This grade is an advanced liquid composite, which combines shock resistance and toughness from a unique blend of hybrid rubbers, with a high tensile shear strength from an innovative liquid plastic resin. High viscosity non slump. Eliminates stress cracking. Once bonded with fusion of chemistries achieves an ultra high strength bond with excellent chemical and environmental resistance.

TYPICAL APPLICATIONS

PET HIPS CLEAR is very versatile, can bond a wide variety of substrates to plastic without the need for surface primers or conditioners. Typical examples shown below:

- Bonding polycarbonate letters in the sign industry
- Bonding acrylic in POS manufacture
- Repairing polycarbonate headlights
- Bonding outdoor lighting lenses and fixtures
- Assembling electric meter housings and covers

INSTRUCTIONS FOR USE

- 1) Always consult SDS before using PET HIPS CLEAR for the first time
- 2) Carry out surface preparation where required
- 3) Remove cap, and attach mixer nozzle
- 4) Dispense sufficient adhesive to ensure equal mix
- 5) Apply adhesive to one surface and assemble components carefully, clamping if required.
- 6) It is always easier to remove any excess adhesive prior to cure using a suitable cleaner
- 7) Allow the adhesive sufficient time to achieve handling strength before moving or unclamping components

PROPERTIES OF UNCURED MATERIAL

Resin	Methacrylate Blend
Colour	Clear
Appearance	Transparent Liquid
Viscosity Brookland T Bar	10,000cps
Cure System	Exothermic
Open Time	1-2 Minutes @ 20°C
Handling Strength	4-5 Minutes @ 20°C

PERFORMANCE OF CURED MATERIAL

ASTM D1002 Lapshear	Acrylic Plastic 8.2Nmm ²
ASTM D1002 Lapshear	Polycarbonate 12.5Nmm ²
Gap Fill	3mm
Temperature Range	-55°C to 125°C

PACKAGING

Available in 25ml, 50ml and 400ml cartridges

STORAGE & SHELF LIFE

CTA PET HIPS CLEAR should be stored unopened in a cool dry location, out of direct sunlight. Stored correctly, this grade can offer a 6-month shelf life.

HEALTH & SAFETY IN USE

Methacrylate and should not be used without consulting the SDS, which contains full information regarding the use of this product, including Transport, Disposal, Toxicological, Exposure Controls, Accidental Release and First Aid measure essential to the safe use of this product.

Please consult SDS for statutory regulation information.

These suggestions and data are based on information we believe to be reliable and accurate, but no guarantee of their accuracy is made. Smile Plastics shall not be liable for any damage, loss or injury, direct or consequential arising out of the use or the inability to use the product. In every case, we urge and recommend that purchasers, before using any product in full scale production, make their own tests to determine whether the product is of satisfactory quality and suitability for their operations, and the user assumes all risk and liability whatsoever, in connection therewith.