Our partners SCIGRIP have announced the new SG400LSE MMA Methyl Methacrylate Adhesive for Low Surface Energy Plastics that creates fast and strong bonds with low surface energy plastics. SG400LSE has been tested on high-density polyethylene (HDPE), ultrahigh molecular weight (UHMW) PE, and homopolymer, copolymer and glass-filled polypropylene (PP) – bond strength testing results in substrate failure, not bond failure, every time.

SG400LSE has also proven its ability to bond to nylon-66, a common type of nylon that is another difficult-to-adhere surface that has low surface energy and is chemically inert.
Adhesive for bonding polypropylene, polyethylene and more

results for various substrates bonded with SG400LSE and a competitor’s adhesive
SG400LSE works with dissimilar material bonding, like plastics to metal or composites, and this ability to cross-bond substrates is somewhat unique. SG400LSE has been tested against multiple plastics, fiber-reinforced polymers (FRP composites), and metals – with substrate failure in every case. In the image above, on the left is bonded homopolymer PP, which has substrate failure 484 psi. In the middle, SG400LSE adheres well enough to both metal and FRP that the polymer stretches before ultimate failure at 584 psi. On the right, a competitor’s adhesive shows adhesive failure on the aluminium.

SG400LSE cures quickly, reaching a strength of more than 300 psi (2 MPa) in just 6 hours and full strength in 24 hours. It’s a translucent, low exotherm two-part product with a 10:1 mix ratio that is available in 50 mL cartridges.
Adhesive for bonding polypropylene, polyethylene and more

Let's start by talking about your application.
Adhesive for bonding polypropylene, polyethylene and more

Supplied by:

INTERTRONICS
12a Station Field Industrial Estate, Banbury Road, Kidlington
Oxfordshire England OX5 1JD
t 01865 842842 e info@intertronics.co.uk

Last updated: May 2024
Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith.