

Polymer Systems Technology Limited

NUSIL TECHNOLOGY INTRODUCES A LIGHTWEIGHT, ULTRA LOW OUTGASSING™ ADHESIVE

SCV-2586, a lightweight, thermally stable adhesive, provides Ultra Low Outgassing™ characteristics for Aerospace and Electronics applications

High Wycombe, Buckinghamshire Polymer Systems Technology Ltd a cutting-edge supplier of silicone-based materials for aerospace, aircraft, electronics and photonics industries, recently added SCV-2586 to its line of Ultra Low Outgassing™ silicone materials. [SCV-2586](#) is a lightweight adhesive for applications requiring thermal stability and a broad operating temperature range in which volatile condensables and outgassing are a concern.



SCV-2586 can be used as a bonding, sealing or potting material in space and electronic applications. It provides radiation resistance, low thermal conductivity, oxidation stability, thermal stability and good ablative characteristics. This elastomer far surpasses industry-standard ASTM E595, with a Total Mass Loss (TML) of <0.10% and <0.01% Collected Volatile Condensable Material (CVCM). With a specific gravity of 0.74, this lightweight material is excellent for flight applications in which weight is a concern and it features high adhesion with a primed lap shear strength of 175 psi.

"SCV-2586 is an excellent fit for solar cell bonding to solar array panels in space applications or even terrestrial laser and photonic applications," said Bill Riegler, product director – engineering materials at NuSil Technology, "It is especially beneficial when these types of applications require Ultra Low Outgassing™ and minimal volatile condensables under extreme operating conditions."



With a work time of four hours, SCV-2586 offers the convenience of an extended work time, allowing materials to be processed over large surface areas. SCV-2586 is an addition-cure silicone that does not require moisture to cure and has minimal shrinkage and no by-products. Cure time can also be accelerated with heat.



For more information on these grades of silicones for aerospace applications, visit <https://www.silicone-polymers.com> or call 01494446610