

When designing electronic enclosures, choosing the right gasket or sealing material is vital to prevent water, dust, and moisture ingress. This is where UL 157 and UL 50E standards are important.

We are pleased to announce that a range of our kSil® silicone sponge materials has now obtained UL 157 and UL 50E ratings, ensuring superior sealing performance, durability, and safety across multiple applications and sectors.

What is UL 157?

UL 157 is an industry-recognised standard established by Underwriters Laboratories (UL) for gaskets and seals.

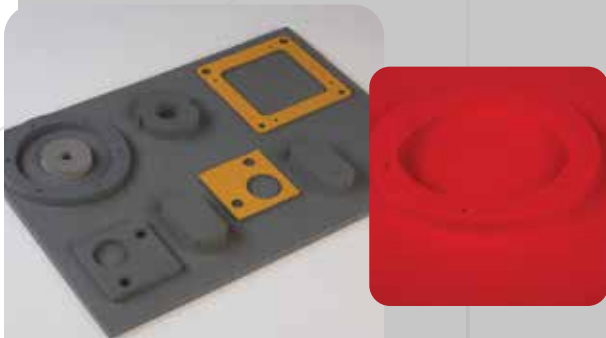
Why is UL 157 Certification Important?

UL 157 ratings provide a comprehensive profile of a material's performance characteristics, helping engineers and designers make informed decisions during application development.

Gaskets and seals play a vital role in protecting against the ingress of dust, liquids, gases, and other environmental contaminants.

UL 157 certification offers assurance that materials used in these critical applications meet high-quality performance standards, delivering:

- Regulatory compliance with industry safety standards
- Predictable and consistent material performance
- Enhanced sealing performance through better application design



What is UL 50E?

UL 50E is a critical safety standard that evaluates the environmental performance of gaskets and sealing materials used in electrical enclosures and outdoor applications.

This certification confirms that materials can withstand exposure to water, dust, extreme temperatures, and other harsh conditions.

Why is UL 50E Certification Important?

For manufacturers producing outdoor electrical enclosures, industrial equipment, and weatherproof sealing solutions, UL 50E-certified materials ensure:

- Protection against environmental hazards such as moisture, dust, and extreme weather
- Compliance with regulatory standards for electrical and industrial enclosures
- Longevity and durability for extended material performance



Key Benefits of Our UL-Certified Silicone Materials

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What Silicone Grades Are Listed?

To help customers choose the right material for their application, the following kSil® silicone sponge grades are now listed under UL 157 and UL 50E for **General and Seals (JMLU2)** category:

General Purpose Grades (GP)

kSil® GP 200
kSil® GP 250
kSil® GP 350
kSil® GP 400
kSil® GP 450
kSil® GP 530

UL 94 V-0 Rated Grades

kSil® V-0 Soft NG
kSil® V-0 Medium NG
kSil® V-0 Medium Firm NG
kSil® V-0 Firm NG

USA Grades

kSil® US 350
kSil® US 400

Silicone sealing benefits

Acoustic & vibration insulation

Silicone protects applications from vibration damage acting as a dampener, as well as being an acoustic insulator in applications where loud noise is present.

Seals & gaskets

Our silicone sheeting and extruded products provide the perfect materials intended for use as seals and gaskets.

Thermal insulation

Its closed cell structure allows for excellent thermal insulation for a wide range of applications.

Protection & safety

Protection from environmental stresses, vibration and extreme temperatures.

Sealing profiles

Available in custom sponge extrusions (tubing, profiles, cords and sections) for specific sealing designs under our **expansil** and **surasil** brands.