

Addition-Cure Silicone Gel

For HEPA/ULPA and cleanroom filter gel-seal applications

PRODUCT DESCRIPTION

TP-012 is a pourable, two-part addition-cure RTV-2 silicone gel that cures at room temperature. Its low viscosity and very soft cured-gel characteristics make it suitable for conformable filter sealing systems.

KEY FEATURES & TYPICAL APPLICATIONS

Key Features

- Two-part system; A:B mixing ratio 1:1
- Low viscosity for easy pouring/channel filling
- Very soft silicone-gel consistency after cure
- Room-temperature cure; heat can accelerate cure
- Crystal clear or blue; low shrinkage

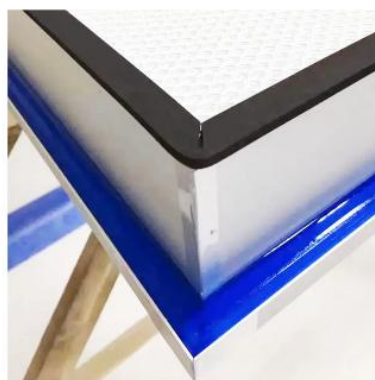
Typical Applications

- HEPA/ULPA filter gel-seal systems
- Cleanroom filter sealing
- Electronic component encapsulation
- Solar cell encapsulation
- Damping elements

TYPICAL PRODUCT DATA

Property	Typical Value
Mixing ratio (A:B)	1:1
Density at 25°C – Part A	0.95 g/cm ³
Density at 25°C – Part B	0.95 g/cm ³
Density at 25°C – Mixed	0.95 g/cm ³
Color	Crystal clear or blue
Hardness (Shore A)	N/A – silicone gel
Viscosity at 25°C	400 ± 100 mPa·s
Working time at 25°C	60 min
Cure time at 25°C	12–24 h
Volume resistivity	1 × 10 ¹⁵ Ω·cm
Thermal conductivity	0.2–0.3 W/(m·K)
Flammability classification	UL 94 HB*
Linear shrinkage	≤ 0.1%

*UL 94 HB is reproduced from the current product data. Supporting test/certification documentation should be confirmed separately when required.



HANDLING, PACKAGING & STORAGE

Mixing Instructions

- Mix Part A and Part B at a 1:1 ratio.
- Mix slowly and thoroughly until homogeneous; minimize air entrapment.
- Pour into the gel-seal channel

Available Packages

- 1 kg + 1 kg
- 5 kg + 5 kg
- 20 kg + 20 kg
- 25 kg + 25 kg
- 200 kg + 200 kg

Shelf Life & Storage

- 18 months from date of production.
- Store dry in the original sealed container.
- Avoid contamination of the two components.

IMPORTANT NOTICE

Values shown are typical product data and are not intended as a sales specification. Users should evaluate TP-012 under their own processing and end-use conditions to confirm suitability. Review the current SDS before use.