

PRODUCT DESCRIPTION

SG277 is a single-component, medium-viscosity methacrylate-based anaerobic thread locking adhesive that appears as a red liquid and exhibits fluorescence under ultraviolet light. It cures when isolated from air between two tightly fitted metal surfaces, preventing loosening and leakage caused by impact or vibration. Suitable for permanent locking and sealing of large-sized bolts (M25 and above).

PRODUCT BENEFITS

1. Medium viscosity, suitable for larger thread clearances
2. Anaerobic curing, suitable for active and inert metal surfaces
3. High strength, permanent locking
4. Excellent heat resistance, aging resistance, and chemical resistance

TYPICAL APPLICATIONS

1. Permanent locking and sealing for large-sized threaded fasteners (M25 and above)
2. Suitable for assemblies requiring high strength, impact resistance, and vibration tolerance.

TYPICAL PROPERTIES

Before curing

Appearance	Red liquid
Chemical Type	metacrylic acid ester
fluorescence	exhibits fluorescence under ultraviolet light
Specific Gravity 25°C (g/ml)	1.10-1.20
dynamic viscosity 25°C (mPas)	4000-5000

curing

Initial setting time 25°C (min, Stainless steel plate)	25
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Performance after curing (Cured at 25°C for 24 hours)

Breakaway Torque (N·m)	16
Average Disassembly Torque (N·m)	13.5
Loosening torque (N·m)	17
Thermostability 80°C (HR)	6

HANDLING AND SAFETY

During handling and use, suitable precautions against toxic hazards shall be taken, and the product shall be used only in well-ventilated areas.

SHELF LIFE AND STORAGE

When stored in the original container at temperatures between 8°C and 21°C, the shelf life is 24 months from the date of manufacture.

PACKAGING SPECIFICATIONS

50 mL/bottle, 250 mL/bottle

LEGAL DISCLAIMER

The information provided herein, including recommendations for product use and application, is based on internal laboratory testing conditions and is for reference only. Shandong Hoobond New Materials Co., Ltd. assumes no responsibility for any tests conducted by users or for any performance results obtained thereby. It is strongly recommended that users perform an evaluation prior to production to confirm the suitability of this product for their intended application.