

Threadlocker Anaerobic Adhesives (TL Series)



TL Series Typical Properties Chart

Parker Part Number	Color	Working Temperature	Activator Used	Gap Fill	Viscosity	Setting Time ²		Torque ¹		Torque
						Partial	Total	Breakaway	Prevail ³	
						Min.	Hrs.	N.m	N.m	
TL22	Violet	-58 to 302°F -50 to 150°C	ST02	0.12	(Low) 200 to 500	10 to 20	24	6 to 15	1 to 6	Low
TL55	Blue	-58 to 302°F -50 to 150°C	ST02	0.12	(Medium) 1500 to 2000	10 to 20	24	15 to 30	8 to 14	Medium
TL81	Green	-58 to 392°F -50 to 200°C	ST02	0.07	(Very Low) 8 to 12	10 to 20	24	30 to 70	18 to 40	High
TL83	Red	-58 to 302°F -50 to 150°C	ST02	0.20	(Low) 500 to 800	10 to 20	24	30 to 70	18 to 40	High
TL86	Red	-58 to 302°F -50 to 150°C	ST02	0.30	(High) 5000 to 7000	10 to 20	24	30 to 70	18 to 40	High

1. Setting time: 24 hours @ 72°F (22°C), test body: M10black oxidized screw, test according ISO 10964.
2. The setting time is strongly influenced by substrate, room temperature and presence of activators. Above data referenced to substrate carbon steel in temperature of 72°F (22°C) without use of activators.
3. Refer to MSDS for additional information.

Lock, Seal and Retain: Parker TL Series Anaerobic Adhesives are liquid resins that cure (in the absence of air) when placed in contact with metallic or threaded parts. They provide high resistance to pressure, vibration and fill 100% of gaps between parts enhancing the locking and sealing forces. Overflow is not likely to contaminate or obstruct the application and can be easily wiped away (as long as it is exposed to air) by using oils or polar solvents. Threadlockers are available in three levels of break away torque and are distinguished by force required by disassembly and viscosity.

The TL series adhesives are resistant to water, fuel, gases, oils, and other chemical products. They offer a wide temperature range and are used primarily in applications with screws, bolts, drop bolts, latch pulleys, gearboxes, busing, sleeves, bearings, valves, flanges, shafts and rotors.

Product Features:

- Prevents loosening and leakage
- Solvent free
- No mixing, easy to use
- Quickly cures at room temperature
- Wide temperature range
- Resistant to major chemicals
- Cost Effective
- Creates barrier that prevents rust, oxidation and corrosion
- Can be dispensed manually, semi-automatically or automatically