



AN ELLSWORTH ADHESIVES COMPANY 

TECHNICAL DATA SHEET TL5000 Series

10/16/2018

N109 W13300 ELLSWORTH DRIVE GERMANTOWN, WI 53022

262-253-5900 FAX 262-253-5919

DESCRIPTION:

ResinLab® TL5000 Series anaerobic threadlocking compounds are designed for use in demanding applications to fill the spaces and surface irregularities between tightly mated cylindrical parts. They form a tough permanent bond which greatly enhances the torque and pullout strength. These products are highly resistant to heat, corrosion, vibration, water gases, oils and many other chemicals.

TL5000 Series products are single component solvent free materials manufactured in a wide variety of viscosities to satisfy specific bonding applications. This technology increases the reliability and performance of assemblies while reducing dependence upon maintaining costly tight machining tolerances.

TYPICAL PROPERTIES:

All properties given are at 25 °C unless otherwise noted.

Product	Color	Viscosity (cps)	Thixotropy	Breakaway /prevailing torque (in*lbs)	Temp range °F	Cure Speed (fixture / full cure)	S.G.
TL5021	Violet	200	Low	40/25	-60 to 350	10 minutes / 8 hours	1.08
TL5022 ¹	Purple	1200	Medium	75/50	-60 to 350	10 minutes / 8 hours	1.05
TL5041	Blue	200	Low	150/75	-60 to 350	10 minutes / 8 hours	1.08
TL5042 ²	Blue	1200	Medium	150/75	-60 to 350	10 minutes / 8 hours	1.07
TL5043	Blue	5000	Medium	180/90	-60 to 350	10 minutes / 8 hours	1.08
TL5062 ³	Red	3500	Medium	200/275	-60 to 350	10 minutes / 8 hours	1.05
TL5071 ⁴	Red	500	Medium	250/350	-60 to 350	10 minutes / 8 hours	1.12
TL5072	Red	9000	High	250/375	-60 to 450	15 minutes/ 24 hours	1.11
TL5077 ⁵	Red	7000	Medium	275/375	-60 to 350	10 minutes / 8 hours	1.12
TL5090 ⁶	Green	12	Low	150/275	-60 to 350	10 minutes / 8 hours	1.08

Meets:

¹MIL-S-46163A, Type II, Grade M

²MIL-S-46163A, Type II, Grade N

³MIL-S-46163A, Type I, Grade O

⁴MIL-S-46163A, Type I, Grade K

⁵MIL-S-46163A, Type II, Grade L

⁶MIL-S-46163A, Type III, Grade R

Instructions:

For best results and optimum adhesive performance, surface should be clean and free from contaminants. Contaminants can be removed by using suitable solvents. Sometimes aqueous washing systems are used to clean surfaces. Care should be observed in these cases as the performance of the TL series product can be affected. These products are not normally used on plastics, user should check compatibility with these materials before using.

Application:

The TL5000 Series products should be applied in small amounts to one surface only. The absence of oxygen starts the curing process of the polymer. Optimum and correct performance requires a gap of 0.05mm. Assembly should be tightened as soon as possible to avoid shimming. Pressure need only be applied for several seconds.

Handling:

Normal precautions should be observed consistent with the SDS and chemical handling procedures. Use in an area that has adequate ventilation. For industrial and professional use only.

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SHELF LIFE AND STORAGE:

12 months at 25 °C or room temperature
Avoid heat or storage above 37 °C/100 °F
Avoid contaminating open containers.
Do not return unused adhesive to original container.