



TECHNICAL DATA SHEET 810028

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DESCRIPTION:

Tacusil 810028 is a one-part, heat cure, very soft thermally stable silicone gel. It was designed to have excellent thermal stability over a broad temperature range. 810028 will cure very quickly to a soft, low modulus, colorless gel that will have dependability in various applications over a wide range of temperatures. Applications include power and automotive electronics as well as industrial sensor and actuator applications. 810028 will have long lasting performance as a potting material and will also offer reliable environmental protection against damaging environmental conditions.

FEATURES AND BENEFITS:

- Excellent thermal stability
- Buffers mechanical stress
- Environmental protection
- Thermal cycling, impact and vibration protection
- Reliable over a broad temperature range

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

Property:	Value:
Color	Clear or colorless
Viscosity	690 cP
Specific Gravity	0.97
Heat cure Time	
At 125 °C	15 minutes
At 150 °C	10 minutes
Gel Hardness	78 grams measured at 10mm
Penetration	80 at 1/10mm
Penetration at ¼ cone	84 at 1/10mm
Dielectric Strength	533 V/mil 21 kV/mm
Dielectric Constant/Dissipation	
Factor	2.9 / 0.00016
At 110 Hz	2.9 / 0.000022
At 100 kHz	2.9 / 0.00045
At 1MHz	
Volume Resistivity	2x10 ¹⁵ ohm-cm
Temperature Range	-60 °C to >200 °C

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