



Three Bond International, Inc.

Technical Data Sheet

TB1281 – SILICONE SEALANT

Information

TB1281 is a high performance, room temperature vulcanized (RTV) silicone commonly used as a formed in place gasket (FIPG). TB1281 is characterized by good elasticity, temperature resistance and chemical resistance after curing.

Typical Properties

1. Uncured State

| Property | | Units | Value |
|--------------------|-----|----------|-----------------|
| Appearance | | - | Red-Brown Paste |
| Viscosity | SOD | Pa•s (P) | 100 (1000) |
| Sag | | - | Non-Sag |
| Specific gravity | | - | 1.39 |
| Heating Residue | | % | 99 |
| Main Component | | - | Silicone |
| Reaction Mechanism | | - | De-oxime |
| Tack Free Time | | Minute | 10 |
| Curing Speed | | mm / day | 2.8 |

2. Cured Material

| Property | | Units | Value |
|---------------------------|-----------------------------|----------------------------|---------------|
| Hardness | | JIS A | 60 |
| Tensile Strength | | MPa (kgf/cm ²) | 3.1 (31) |
| Elongation | | % | 190 |
| Lap Shear | Steel/Steel | MPa (kgf/cm ²) | 1.5 (15) |
| | Aluminum/Aluminum | | 1.3 (13) |
| Pressure Resistance | RT | MPa (kgf/cm ²) | Over 10 (100) |
| | 80°C | | |
| | 150°C | | |
| | -40°C × 2 hr & 100°C × 3 hr | | |
| Blow Out Test (Clearance) | 0.10 mm | MPa (kgf/cm ²) | 0.39(3.9) |
| | 0.20 mm | | 0.17(1.7) |
| | 0.50 mm | | 0.10(1.0) |
| Service Temperature | | °C | -60 ~ 200 |

These are typical results and are not specification.