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# 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 <sup>2</sup> )	3.1 (31)
Elongation		%	190
Lap Shear	Steel/Steel	MPa (kgf/cm <sup>2</sup> )	1.5 (15)
	Aluminum/Aluminum		1.3 (13)
Pressure Resistance	RT	MPa (kgf/cm <sup>2</sup> )	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 <sup>2</sup> )	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.*