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## Three Bond International, Inc. Technical Data Sheet

### **TB1217F – SILICONE SEALANT**

#### **Information**

TB1217F is a high performance, room temperature vulcanized (RTV) silicone commonly used as a formed in place gasket (FIPG). TB1217F is characterized by good elasticity, temperature resistance and chemical resistance after curing.

#### **Typical Properties**

##### **1. Uncured State**

Property		Units	Value
Appearance		-	Gray Paste
Viscosity	SOD	Pa s (P)	240 (2400)
Sag		-	Non-Sag
Specific gravity		-	1.39
Heating Residue		%	99
Main Component		-	Silicone
Reaction Mechanism		-	Deoxime
Tack Free Time		Minute	6
Curing Speed		mm/day	3

## 2. Cured Material

Property		Units	Value
Hardness		JIS A	60
Tensile Strength		MPa (kgf/cm <sup>2</sup> )	3.0 (30)
Elongation		%	210
Lap Shear	Steel/Steel	MPa (kgf/cm <sup>2</sup> )	2.0 (20)
	Aluminum/Aluminum		2.0 (20)
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> )	0.5 (5.0)
	0.20 mm		0.35 (3.5)
	0.50 mm		0.15 (1.5)
Service Temperature		°C	-60 ~ 200

*These are typical results and not specifications.*