



Three Bond International, Inc.
Technical Data Sheet

TB1207B – SILICONE SEALANT

Information

TB1207B is a high performance, room temperature vulcanized (RTV) silicone commonly used as a formed in place gasket (FIPG). TB1207B is characterized by good elasticity, temperature resistance and chemical resistance after curing.

Typical Properties

1. Uncured State

Property		Units	Value
Appearance		-	Black Paste
Viscosity	BH	Pa•s(P)	250 (2500)
	SOD		100 (1000)
Sag		-	Non-Sag
Specific gravity		-	1.01
Heating Residue		%	99
Main Component		-	Silicone
Reaction Mechanism		-	Deacetone
Tack Free Time		Minute	8
Curing Speed		mm / day	3.0

2. Cured Material

Property		Units	Value
Hardness		JIS A	30
Tensile Strength		MPa (kgf/cm ²)	2.0 (20)
Elongation		%	400
Lap Shear	Steel/Steel	MPa (kgf/cm ²)	1.6 (16)
	Aluminum/Aluminum		0.9(9)
Pressure Resistance	RT	MPa (kgf/cm ²)	Over 10 (100)
	80°C		
	150°C		
	-40°C × 2 hrs & 100°C × 3 hrs		
Blow Out Test (Clearance)	0.10 mm	MPa (kgf/cm ²)	0.33 (3.3)
	0.20 mm		0.18 (1.8)
	0.50 mm		0.07 (0.7)
Fluid Resistance	Water (95°C)	%	-0.6
	Gasoline (50°C)		+5.0
	Oil		-6.0
Service Temperature		°C	-60 ~ 200

3. Electrical Property

Data reference: Technical report Japan, 880527, 88-210

Item	Curing Time (25°C)	Unit	Value
Dielectric Resistance	3days	Ohm	9.3×10^7
	5days		1.7×10^{11}
	7days		1.9×10^{14}
Surface Resistance	7days	Ohm	1.9×10^{11}

Charge voltage= 500V for 1minute

These are typical results not product specifications.