



Three Bond International, Inc. Technical Data Sheet

TB1281B – SILICONE SEALANT

Information

TB1281B is a high performance, room temperature vulcanized (RTV) silicone commonly used as a formed in place gasket (FIPG). TB1281B is characterized by good elasticity, temperature resistance and chemical resistance after curing. It has good automatic transmission fluid resistance.

Typical Properties

1. Uncured State

Property		Units	Value
Appearance		-	Red-Brown Paste
Viscosity	SOD	Pa s (P)	115 (1150)
Sag		-	Non-Sag
Specific gravity		-	1.45
Heating Residue		%	94
Main Component		-	Silicone
Reaction Mechanism		-	Deoxime
Tack Free Time		Minute	10
Curing Speed		mm / day	2.1

2. Cured Material

Property		Units	Value
	Hardness	JIS A	60
	Tensile Strength	MPa (kgf/cm ²)	4.8 (48)
	Elongation	%	220
Lap Shear	Steel/Steel	MPa (kgf/cm ²)	2.0 (20)
	Aluminum/Aluminum		2.0 (20)
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)	0.30(3.0)
	0.20 mm		0.15(1.5)
	0.50 mm		0.06(0.6)
	Service Temperature	°C	-60 ~ 200

These are typical results and are not specification.