



Three Bond International, Inc. Technical Data Sheet

TB1216E – SILICONE SEALANT

Information

TB1216E is a high performance, room temperature vulcanized (RTV) silicone commonly used as a formed in place gasket (FIPG). TB1216E 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)	200 (2000)
Sag		-	Non-Sag
Specific gravity		-	1.41
Main Component		-	Silicone
Reaction Mechanism		-	Deoxime
Tack Free Time		Minute	6

2. Cured Properties

Property		Units	Value
Hardness		JIS A	57
Tensile Strength		MPa (kgf/cm ²)	3.2 (32)
Elongation		%	300
Lap Shear	Aluminum/Aluminum	MPa (kgf/cm ²)	2.3 (23)
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)	0.49 (4.9)
	0.20 mm		0.25 (2.5)
	0.50 mm		0.10 (1.0)
Service Temperature		°C	-60 ~ 200

These are typical results and not specifications.