



## 1527 Black

1527 Black, also called 1527SBK is a black, UL certified, one component RTV silicone with super resistance to weathering and ultra violet(UV). This material has very good adhesion without the need for primers to a wide range of substrates. It can be used for a variety of interior and exterior bonding and sealing applications. 1527 Black is formulated to perform at temperatures ranging from -54°C to 210°C.

Technology / Base	Poly(dimethyl) Siloxane
Type of Product	Silicone Sealant
Components	One Part
Curing	Moisture Cure
Appearance / Color	Black
Consistency	Thixotropic Paste

### Features and Benefits

- Excellent heat resistance properties
- Wide operating temperature range
- Easy to use for reworkable applications
- Fast setting one component material
- Neutral cure low/no odor
- UL94 rated

### Technical Data

Physical Property	Value	Condition/Method
<b>Rheology</b>		
Viscosity	Thixotropic Paste	
<b>Density</b>		
Specific Gravity	1.37	
<b>Uncured Material Characteristics</b>		
Tack Free Time	6 min	
Full Cure Time	24 hr ≥ 2mm	23±2°C and 50±5%RH
<b>Cured Material Performance</b>		
Thermal Service Range	-54 to 210°C	
Hardness	48 Shore A	ISO7619, GB/T531
Tensile Strength	2.3 MPa	ISO37, GB/528
Elongation to Break	300%	ISO37, GB/528
Lap Joint Shear Strength Aluminum	1.8 MPa	ISO4587, GB7124
<b>Electrical Properties</b>		
Volume Resistivity	1.0 x 10 <sup>15</sup> Ωcm	IEC60093, GB/T1692
Breakdown Voltage	20 kV/mm	IEC 60243-1, GB/T1695
<b>Damp Heat Aging Testing</b>		
Elongation at Break	320%	85°C, 85% RH for 1000 hr ISO37, GB/528
Tensile Strength	1.6 MPa	ISO37, GB/528

Test Sample Conditions: 2mm Thickness, Cured at 23±2°C, 50±5%RH for 7 days. Tested at 23±2°C



## Typical Applications

- Appliances
- Ovens
- Cook Tops
- Solar Cells
- Lighting Systems
- Battery Sealing

## Curing Conditions

Cure speed will vary with temperature, relative humidity, depth of material and presence of moisture. Some applications may require special surface preparation. At 23±2°C, 50±5% relative humidity, typical cure depth is 2mm in 24 hours. Requires more time to cure in colder or lower humidity conditions. Contact H.B. Fuller Company technical support for additional curing recommendations.

## Storage and Shelf Life

Product shall be ideally store in a cool, dry area in unopened containers. 1527 has a shelf life of 12 months from the date of manufacture. Material should be stored at a temperature of 8-25°C. Do not return unused material back into the container.

## General Instructions

- a) For best performance bond surfaces should be clean, dry and free of any contaminants and oils.
- b) Apply a continuous and even bead of silicone to one surface.
- c) Assemble parts immediately. Remove excess material at once.

## Note

The values noted in this data sheet are typical properties only and are not intended to be used as material specifications. For assistance in writing a material specification, please contact H.B. Fuller Company for further details.

## Ordering Information

Stock No.  
 1527115, 310ml; 1527114, 400ml; 1527116, 600ml;  
 1527117, 25kg; 1527118, 235kg

## Safety and Disposal

**For complete safety and handling information, please refer to the appropriate Safety Data Sheets prior to using this product.**

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