

Loctite® Output™ 5404 Heat Cure Silicone

Category : Polymer , Adhesive , Thermoset , Silicone , Silicone, RTV, Adhesive/Sealant Grade

Material Notes:

Thermally Conductive Bonders Loctite® Thermally Conductive Adhesives eliminate the need for mechanical fasteners and clips, while providing the most efficient thermal transfer between transistors or microprocessors and their heat sinks. Loctite offers a wide range of adhesive chemistries including silicones, acrylics and epoxies. Many processing options are available for curing these adhesives such as heat cure, activator cure, and UV light. Loctite® 5404 1 component silicone Output™ Heat Cure Silicone A self-shimming, flexible adhesive for demanding parts such as ceramic boards. Cure Type: Heat

Order this product through the following link:

http://www.lookpolymers.com/polymer_Loctite-Output-5404-Heat-Cure-Silicone.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|--|
| Density | 2.40 g/cc | 0.0867 lb/in ³ | |
| Viscosity | 280 cP | 280 cP | Extrusion measured at 50 psi/0.125" orifice. |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-------------|-----------|----------|
| Tensile Modulus | 0.00405 GPa | 0.587 ksi | |

| Thermal Properties | Metric | English | Comments |
|---------------------------|-------------------------------------|--|----------|
| CTE, linear | 104 µm/m-°C @Temperature 20.0 °C | 57.8 µin/in-°F @Temperature 68.0 °F | |
| Thermal Conductivity | 1.33 W/m-K | 9.23 BTU-in/hr-ft ² -°F | |
| Glass Transition Temp, Tg | 0.400 °C | 32.7 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|------------|------------|------------------------|
| Cure Time | 10.0 min | 0.167 hour | Full Cure Time @ 150°C |
| Shelf Life | 5.00 Month | 5.00 Month | shelf life at 4°C |

| Descriptive Properties | Value | Comments |
|------------------------|--------|---|
| Capillary Flow | 45 sec | Time to flow 0.5" @ 100°C through a gap of 0.001" |

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