

## Cotronics Resbond™ 904 Ultra Temp Zirconia Adhesive and Coating

Category : Ceramic , Oxide , Zirconium Oxide

**Material Notes:**

Ultra Temp 904 is a smooth creamy paste that is easily brushed on ceramics, graphite, metals, etc. to form adhesive bonds and coatings that will withstand 4000°F (2200°C) continuous heat. It has excellent resistance to oxidizing and reducing atmospheres, chemicals and solvents, electricity, molten metals, flame impingement, x-ray radiation, etc. Applications: bonding, coating, encapsulating, thermocouple protection, high temp. brick facing, etc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Cotronics-Resbond-904-Ultra-Temp-Zirconia-Adhesive-and-Coating.php](http://www.lookpolymers.com/polymer_Cotronics-Resbond-904-Ultra-Temp-Zirconia-Adhesive-and-Coating.php)

Mechanical Properties	Metric	English	Comments
Flexural Strength	20.7 MPa	3000 psi	
Compressive Strength	41.4 MPa	6000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.38 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	4.10 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.44 W/m-K	10.0 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	2200 °C	4000 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	
Dielectric Strength	9.84 kV/mm	250 kV/in	

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