

## Cotronics Bond-It™ 7040 Epoxy, Room Temperature Cure

Category : Polymer , Thermoset , Epoxy

### Material Notes:

Forms high strength bonds to difficult metals, plastics, glass, ceramics, composites, etc. Cures at room temperature with high temperature strength and good electrical and thermal shock resistance. Good chemical resistance. Applications: bonding ceramic wear tips to aluminum, brake pads to metal, assembling and repairing machines, aerospace and automotive applications, etc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Cotronics-Bond-It-7040-Epoxy-Room-Temperature-Cure.php](http://www.lookpolymers.com/polymer_Cotronics-Bond-It-7040-Epoxy-Room-Temperature-Cure.php)

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in <sup>3</sup>	
Moisture Absorption at Equilibrium	0.80 %	0.80 %	
Viscosity	5000 cP	5000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Strength, Ultimate	34.5 MPa	5000 psi	
Elongation at Break	3.0 %	3.0 %	

Thermal Properties	Metric	English	Comments
CTE, linear	62.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	34.4 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.01 W/m-K	7.00 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	204 °C	400 °F	
Shrinkage	1.0 %	1.0 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	
Dielectric Strength	19.7 kV/mm	500 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	15.0 min	0.250 hour	
	@Temperature 121 °C	@Temperature 250 °F	

## **Contact Songhan Plastic Technology Co.,Ltd.**

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