

Cotronics 4420 One-Part Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cotronics-4420-One-Part-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	
Moisture Absorption at Equilibrium	0.50 %	0.50 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75	75	
Tensile Strength, Ultimate	48.3 MPa	7000 psi	
Elongation at Break	1.5 %	1.5 %	

Thermal Properties	Metric	English	Comments
CTE, linear	45.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	25.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	1.15 W/m-K	8.00 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Maximum Service Temperature, Air	232 $^{\circ}\text{C}$	450 $^{\circ}\text{F}$	
Shrinkage	0.30 %	0.30 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	
Dielectric Strength	15.7 kV/mm	400 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	30.0 min	0.500 hour	
	@Temperature 121 $^{\circ}\text{C}$	@Temperature 250 $^{\circ}\text{F}$	

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