

Cotronics Duralco™ 4538N Super Flexible Epoxy, Room Temperature Cure

Category : Polymer , Thermoset , Epoxy

Material Notes:

Rubber-like epoxy that has the flexible of a silicone and the chemical stability of an epoxy. It adheres to most plastics, metals, ceramics, glass, rubber and even treated Teflon™. Cures at room temperature. Will not soften or gum up in use. 4528N is resistant to thermal shock and vibration, chemicals, solvents and electricity. Provides class "H" service. Applications: stress free bonding and flexible encapsulations.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cotronics-Duralco-4538N-Super-Flexible-Epoxy-Room-Temperature-Cure.php

Physical Properties	Metric	English	Comments
Density	1.00 g/cc	0.0361 lb/in ³	
Moisture Absorption at Equilibrium	0.50 %	0.50 %	
Viscosity	10000 cP	10000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60 - 80	60 - 80	
Tensile Strength, Ultimate	41.4 MPa	6000 psi	
Elongation at Break	12 - 100 %	12 - 100 %	

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	33.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.01 W/m-K	7.00 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	232 °C	450 °F	
Shrinkage	0.80 %	0.80 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Dielectric Strength	17.7 kV/mm	450 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	60.0 min	1.00 hour	
	@Temperature 121 °C	@Temperature 250 °F	

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