

Cotronics Duralco™ 4525 Electrically Resistant, Room Temperature Curing Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

High bond strength, high thermal stability, low moisture absorption, low shrinkage and excellent chemical, electrical, and radiation resistance. Chemical Resistance: resistant to hydrochloric, phosphoric, sulfuric and nitric acids. Applications: high performance bonding, potting, sealing, repairs, castings and forms protective coatings in electronics, appliances, motors, instrumentation, etc. 4525 has been used to seal thermocouples, electric heaters, and critical electronic components for use in high humidity environments. It has also been used to repair glass lined tanks that hold acidic and caustic solutions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cotronics-Duralco-4525-Electrically-Resistant-Room-Temperature-Curing-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	
Moisture Absorption at Equilibrium	0.050 %	0.050 %	
Viscosity	25000 cP	25000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength, Ultimate	68.9 MPa	10000 psi	
Elongation at Break	2.0 %	2.0 %	

Thermal Properties	Metric	English	Comments
CTE, linear	64.0 μm/m-°C	35.6 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	1.87 W/m-K	13.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	260 °C	500 °F	
Shrinkage	0.20 %	0.20 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Strength	17.7 kV/mm	450 kV/in	

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Cure Time	@Temperature 121 °C	@Temperature 250 °F	

Contact Songhan Plastic Technology Co.,Ltd.

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