

Cotronics Duralco™ 4540 Machinable Epoxy

Category : Polymer , Thermoset , Epoxy

Material Notes:

Patches, fills, seals, and repairs with outstanding adhesion, ductility, thermal conductivity and shock resistance. Corrosion Resistance: excellent resistance to chemicals and solvents Applications: repairing leaks, solder joints, cracks, holes, castings, heating elements, cooling coils, high temperature instruments, assemblies.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cotronics-Duralco-4540-Machinable-Epoxy.php

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in ³	
Moisture Absorption at Equilibrium	0.20 %	0.20 %	
Viscosity	30000 cP	30000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80	80	
Tensile Strength, Ultimate	68.9 MPa	10000 psi	
Elongation at Break	1.2 %	1.2 %	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	5.04 W/m-K	35.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	260 °C	500 °F	
Shrinkage	0.10 %	0.10 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 ohm-cm	1.00e+8 ohm-cm	
Dielectric Strength	3.94 kV/mm	100 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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