

Cotronics Duralco™ 4703 Adhesive and Tooling Compound

Category : Polymer , Thermoset , Epoxy

Material Notes:

High temperature resin reinforced with ceramic and metallic fibers and particles, resulting in high thermal stability. Easily machined to close tolerances and will repair and rebuild worn or cracked composites, dies, fixtures, jigs, etc. Electrically non-conductive. Corrosion Resistance: resistant to most chemicals, solvents, acids and bases.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cotronics-Duralco-4703-Adhesive-and-Tooling-Compound.php

Physical Properties	Metric	English	Comments
Density	1.80 g/cc	0.0650 lb/in ³	
Moisture Absorption at Equilibrium	0.15 %	0.15 %	
Viscosity	50000 cP	50000 cP	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	95	95	
Tensile Strength, Ultimate	81.4 MPa	11800 psi	
Elongation at Break	2.0 %	2.0 %	

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	37.8 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	2.59 W/m-K	18.0 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	371 °C	700 °F	
Shrinkage	0.10 %	0.10 %	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	
Dielectric Strength	17.7 kV/mm	450 kV/in	

Processing Properties	Metric	English	Comments
Cure Time	240 - 360 min	4.00 - 6.00 hour	
	@Temperature 121 °C	@Temperature 250 °F	

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