

Loctite® Shadowcure™ 397 Acrylic/urethane Heat Cure Coating

Category : Polymer , Adhesive , Thermoset , Acrylic/Cyanoacrylate Adhesive

Material Notes:

Conformal Coatings Conformal coatings are thin dielectric coatings that extend the longevity of circuit boards by protecting components and traces from corrosion, shorts, and mechanical damage. Loctite offers both acrylic/urethane and silicone conformal coatings which are cured by UV, heat, or a two-part cure mechanism. Loctite® 397 Shadowcure™ Acrylic/urethane Heat Cure Coating Designed to replace historic solvent based heat cure coatings in high reliability applications. No solvents. Low VOC. Cure Type: Heat or Catalytic MIL-I-46058C Approved; UL-746C Approved; IPC-CC-830A Approved; Bellcore TR-NWT-000078 Pending Approval.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Loctite-Shadowcure-397-AcrylicurethaneHeat-Cure-Coating.php

Physical Properties	Metric	English	Comments
Viscosity	450 cP	450 cP	(mixed)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	125 °C	257 °F	
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	2.00e+16 ohm	2.00e+16 ohm	ASTM D257
Dielectric Strength	33.9 kV/mm	860 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	10.0 min	0.167 hour	Primary Cure is Heat: Full Cure in 10 minutes at 100C. Secondary Cure is Catalytic: Full Cure in 2-5 days without heat, or more than 24 hours at ambient temp.

Descriptive Properties	Value	Comments
Capillary Flow	25 sec	Time to flow 0.5" @ 100°C through a gap of 0.001"
Color	Clear/Purple (cured)	

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