

## Loctite® Shadowcure™ 394 Acrylic/urethane UV 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® 394 Acrylic/urethane UV Shadowcure™ Coating For high reliability applications where superior moisture and mechanical abrasion resistance are required. No solvents. Low VOC. Cure Type: UV or Catalytic MIL-I-46058C Approved; UL-746C Approved; IPC-CC-830A Approved; Bellcore TR-NWT-000078 Approved.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Loctite-Shadowcure-394-AcrylicurethaneUV-Coating.php](http://www.lookpolymers.com/polymer_Loctite-Shadowcure-394-AcrylicurethaneUV-Coating.php)

Physical Properties	Metric	English	Comments
Viscosity	35 cP	35 cP	(mixed)

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	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	7.00e+16 ohm	7.00e+16 ohm	ASTM D257
Dielectric Strength	43.98 kV/mm	1117 kV/in	ASTM D149

Processing Properties	Metric	English	Comments
Cure Time	0.333 min	0.00556 hour	Primary Cure is UV: Full Cure in 20-40 seconds @ 150-300 mW/cm <sup>2</sup> . Secondary Cure is Catalytic: Full Cure in more than 8 hours Pot life or 24 hours ambient.

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

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