

## APLF

### Acrylic Protective Lacquer – Film Coat

APLF is free from aromatic solvents and supplied ready for use with airless, film-coating techniques. APLF is a flexible, fast drying transparent acrylic conformal coating, used for the protection of electronic circuitry. It has been formulated for professional use only and meets the requirements of a variety of international standards.

- Cost effective material with fast touch dry time, allowing efficient application processes
- Good clarity and high level of stability when exposed to UV light
- Offers good protection in humid environments and resistant to mould growth
- Provides excellent adhesion to a wide variety of substrates

<b>Approvals</b>	<b>RoHS Compliant (2015/863/EU):</b> <b>MIL Approval (MIL-I-46058C):</b> <b>IPC-CC-830:</b>	<b>Yes</b> <b>Meets Requirements</b> <b>Meets Requirements</b>
<b>Liquid Properties</b>	Appearance: Density @ 20°C (g/ml): VOC Content: Flash Point: Solids Content: Viscosity (mPa s @ 20°C): Touch Dry (200 µm wet): Recommended Curing Time:  Coverage @ 25µm:	Pale Coloured Liquid 0.87 75% ± 2% -7°C 25 ± 2% 150 ± 20 10-15 minutes 24 Hours @ 20°C 30 mins @ 80°C  10m <sup>2</sup> per litre
<b>Dry Film Coating</b>	Colour: Operating Temperature Range: Flammability:  Thermal Cycling (MIL-I-46058C): Coefficient of Expansion: Dielectric Strength: Dielectric Constant: Surface Insulation Resistance: Comparative Tracking Index: Dissipation Factor @ 1MHz @ 25°C: Moisture Resistance (MIL-I-46058C):	Colourless -55°C to +125°C Self-extinguishing (ASTM Method D635) Meets UL94-V1 Meets requirements 130ppm 45kV/mm 2.5 1 x 10 <sup>15</sup> Ω >300 Volts 0.01 Meets requirements

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All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

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Certificate No. FM 32082

<b><u>Description</u></b>	<b><u>Packaging</u></b>	<b><u>Order Code</u></b>	<b><u>Shelf Life</u></b>
<u>APLF Conformal Coating</u>	5 Litre Bulk	APLF05L	48 Months
<u>Fast Drying Thinners</u>	5 Litre	FTH05L	72 Months
<u>Removal Solvent</u>	200ml Aerosol	ULS200D	36 Months
	400ml Aerosol	ULS400D	36 Months
	1 Litre Bulk	ULS01L	72 Months
	5 Litre Bulk	ULS05L	72 Months
	25 Litre Bulk	ULS25L	72 Months

### **Directions for Use**

APLF can be sprayed, dipped or brushed, however, the material is formulated for selective coating by film-coating technique. The thickness of the coating depends on the method of application (typically 25-75 microns). Temperatures of less than 16°C or relative humidity in excess of 75% are unsuitable for the application of APLF. As is the case for all solvent based conformal coatings, adequate extraction should be used (refer to MSDS for further information).

Substrates should be thoroughly cleaned before coating to ensure satisfactory adhesion. Flux residues should be removed to ensure they do not compromise the protection afforded by the coating. Electrolube manufacture a range of cleaning products using both hydrocarbon solvent and aqueous technology.

### **Selective Coating**

APLF is formulated specifically for, and supplied ready to be used with non-atomised, airless film-coater technologies. Specific settings will depend on specific machine, nozzle size, and board design. Electrolube are able to offer starting point suggestions for your specific case.

### **Inspection**

APLF contains a UV trace, which allows inspection of the PCB after coating to ensure complete and even coverage; the stronger and more uniform the fluorescence, the thicker and more uniform the coating layer is. UV light in the region of 350-400 nm should be used for inspection.

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