



## NYCOTE® NYFORM®

Nyform is a high-performance, clear, ultra-thin Nylon Epoxy conformal coating that protects high-value electronics from harsh environments and that meets standard IPC-CC-830 (Performance of Electrical Insulating Compound for Printed Wiring Assemblies).



## BENEFITS OF NYFORM

Nyform is a non-conductive dielectric layer that is applied to the printed circuit board assemblies to protect electronics from damage. Nyform ensures your PCBs and other sensitive electronics perform better in severe conditions with long-lasting protection free from cracks, delamination, bubbles, and pinholes.

This proprietary coating is a secure yet flexible 3-dimensional barrier that completely encapsulates the product from the environment, averting chemicals, moisture, dirt, extreme temperatures, and excessive vibration. Nyform is capable of adhering to multiple substrates, is stronger than acrylic conformal coatings, but is easier to remove than epoxy and paraxylylene products. Nyform can also be safely removed with Nycote's non-toxic remover, Nygone®.

With this easy-to-use, one-part solution, Nyform protects your assets, products, and sensitive electronics to overcome your material limitations with self-leveling technology for 100% product encapsulation.

## NYFORM PRODUCT SPECIFICATIONS

Resin	Nylon Epoxy
Cure	2 Hrs at 105°C/24 hours ambient on PCB & electronic assemblies / Tack Free Time -25°C / ~35% RH (10 µm wet film <1hr)
Appearance	Transparent
Viscosity	442(cP)@23°C 22% Torque Speed (RPM) 60
Clean-up	Non-toxic Nycote by Nycote
Elongation	6.5 (MPa) / 77.8%
Hardness	ASTM D2240 / Shore A Scale A AVG. 76
Flexibility	Passes IPCC-C-830 no cracking or crazing 180° over 0.12 mandrel 10Xmag
Adhesion	Excellent Adhesion to metals, plastics, composites, textiles, glass, above and below other coating
Tensile Strength	ASTM D638 / elongation break 128.7 / Elastic Mod. 11.51 (MPa) / Tensile Strength 2.019
Fungus Resistance	Passes ASTM G21
Flammability	Meets IPCC-C-830 / UL94HB
Insulation Resistance	Passes IPC-CC830 / IPC-TM 650 / 0.00 leakage current (µA) 3.08E+12
Dielectric Constant	0.10549 to ASTM D150
Hydrolytic Stability	Meets IPCC-C-830 / IPC-TM-650 / 128 days Pass
Humidity Resistance	1000hrs @85°C/85%RH
Thermal Shock	Meets IPCC-C-830 -65°C - 125°C / dwell time 15 mins / 100 Cycles
Operating Temp	-120°F - 400°F / -84°C - 204°C
Recommended DFT	.5 to 1 Mil / 8 - 20 µm
Shelf Life	8 Months @ 19°C - 26°C
Estimated Pricing	21.125 oz

- Long lasting protection from cracks, delamination, bubbles, and pinholes
- Clear formula
- Meets standard IPC-CC-830
- Water resistant
- Protects against extreme temperatures
- Stronger than acrylic conformal coatings
- Ultra-thin film thickness (.5 mil with one dip coat)
- One-part, easy-to-use application
- Removable with Nycote's Nycote
- Self-leveling film technology for 100% encapsulation protection and uniform appearance
- Rapid global delivery (4-6 days lead time)



## CONTACT US:

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