

ECOAT ECS 1304AG-1310AG SERIES

ELECTRONICS AEROGEL THERMAL MANAGEMENT INSULATING MICRO-COATING

TYPICAL APPLICATIONS

- PCBAs / ELECTRONIC CIRCUIT BOARDS
 - CONSUMER ELECTRONICS
 - MICRO-MOTORS
 - CONNECTORS
 - WEARABLES
 - SENSORS
 - OPTICS

KEY FEATURES

- THIN FILM THICKNESS & AVAILABLE IN CLEAR, SEMI-CLEAR AND BLACK
- SINGLE COMPONENT COATINGS APPLIED VIA DIPPING, SPRAY, OR WIPE
- NO ODOR OR FUMES WHEN HEATED & INERT MATERIAL ONCE CURED
- ENVIRONMENTALLY FRIENDLY CONTAINS NO FLUOROCARBONS.
 MOLECULAR ADHESION & ELECTRICALLY NON-CONDUCTIVE
 - WIOLECULAR ADMESION & ELECTRICALLY NON-CONDUCTIVE
 - ULTRAHYDROPHOBIC & EXTREME ANTI-CORROSION
 - ROHS, REACH AND WEEE COMPLIANT

ECS 1304G-1310AG Series offers unparalleled protection of electronic components from heat, moisture, and other contaminants. The ECS 1304G-1310AG Series has been specifically formulated for use on electronics. All ECS 1304G-1310AG Series coatings are fluoropolymer free. The coatings are easy to apply and offer best in class moisture protection. The ECS 1304G-1310AG Series products have been specifically designed to effectively block thermal energy from reaching the coated surfaces. These coatings are extremely effective for systems requiring external thermal energy to be blocked to protect vulnerable components. Available in both clear and black.

Technical Data		Drying and Coverage Rate
Color	Opaque (Semi-Clear) or Black	Average Applied Dry Film Thickness
Viscosity	20 - 30 sec. #2 Zahn	12 to 25 microns
Percent Solids — 1304AG	24	Estimated Coverage Rate (@15 microns)
Percent Solids — 1305AG	28	650 ft² (60 m²) per gallon
V.O.C	Exempt per CFR 51.1 / Regulation 8	Estimated Coverage Rate (@25 microns)
RoHS	Compliant	460 ft² (42 m²) per gallon
REACH	Compliant	Ambient Cure (@ 75°F (23.8°C))
Halogens	None	5 days
Thermal Stability (cured)	1600°F (871.1°C)	
Conical Bend (1/8" Mandrel) (ASTM 522-3a)	Passed	Supplemental Application Data
Cross Cut Adhesion (ASTM D3359)	5B	All ECS 1304G-1310AG Series products have the same basic application, ultrahydrophobic, and adhesion properties. Some formulations have higher solids content that result in higher dry film thickness maximizing water resistance and thermal protection. Contact your eCoat representative for further information.
Direct Impact (ASTM D2794-93)	130lbs	
Specific Gravity (ASTM D891-09)	1.04 ± 2%	
Pencil Hardness (ASTM D ₃₃ 6 ₃)	7h (Ambient Cure)	
Odor (liquid)	Slight Solvent	
Odor (cured)	None	

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