

Technical Data Sheet

Protective Polymer Coating 243-S Light Blue

Application

243-S Light Blue is a screen-printable, thermosetting, epoxy coating that is resistant to solvent attack when fully cured. This coating may be used to protect thick film circuits on alumina or porcelain enameled steel.

Coating 243-S Light Blue is formulated and processed to be RoHS compliant.

Typical Formulation Properties

Rheology: Thixotropic, screen printable paste

Viscosity: 80 ± 20 Pa.s at 25.5 ± 0.5 °C when measured using a Brookfield RVT, 10 rpm, No. 7 spindle.

Storage and Shelf Life: This product should be stored in tightly sealed containers at 20 - 25 °C, in a dry place away from direct sunlight. The shelf life of a factory sealed container is a minimum 6 months from date of shipment when properly stored.

Colour: Translucent blue

Typical Process Parameters

Thinning: This paste is formulated at the appropriate viscosity for the intended application. Thinner 402 may be used to replace solvent loss.

Printing: A 200 mesh stainless steel screen with ~25 µm thick emulsion is recommended.

Levelling Time (20 °C): 5 – 10 min

Drying Time (at 125 °C): 10 – 15 min

Curing Schedule: 150°C/5 – 15 min

Substrate for Calibration: 96% alumina

Typical Properties:

Cured Thickness:
(1 layer measured on 96% alumina) 10 - 15 µm

Approximate Coverage: 120 cm²/g

Service Temperature: -100 to +150 °C

Solvent Resistance: good resistance to acetone when fully cured.

Acid Resistance: < 1% weight loss in 5% H₂SO₄ at room temperature.



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