

DuPont 5450T

PLATABLE EDGE C2 TERMINATION FOR CHIP RESISTORS,
CHIP COMPONENTS APPLICATIONS

Technical Data Sheet

Product Description

Especially developed for chip resistors, resistor arrays and network applications, DuPont 5450T is a polymeric platable silver C2 edge termination that can meet the needs of lower cost and high yield maintained high performances over fired type C2 edge termination.

Product Benefits

- Low temperature curing (200°C, 30 min.)
- High plated adhesion
- Good dipping performance
- Stable viscosity / rheology
- Good platability
- Good conductivity

Processing

Substrates

Reported properties are based on test with 96% alumina substrates. Substrates of other compositions may yield variations in performance properties.

Dipping

Paste rheology of DuPont 5450T is designed for dipping application.

Drying

Dipped parts should be allowed to level at room temperature for 5 – 10 minutes and then dried at 150°C for 10 minutes.

Typical Composition Properties

Test	Properties
Viscosity (Pa.s) (Brookfield RVR, RC&S, @10rpm, 25°C)	15 - 20
Solids (750°C) [%]	70.0 – 73.0
Thinner	9245

This table shows anticipated typical physical properties for DuPont 5450T based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Curing

Properties are based on a curing cycle with 30 minutes at peak of 200°C.

Thinner

DuPont 5450T is optimized for dipping. Thinner is normally not required. Use the DuPont recommended thinner for slight adjustments to viscosity or to replace evaporation losses. The use of too much thinner or the use of a non recommended thinner may affect the rheological behavior of the material.

Storage and Shelf Life

Shelf life is three months from date of shipment when refrigerated (0 – 5°C).

Storage at room temperature is not recommended. Gradual polymerization and associated viscosity increase, and mechanical separation can be expected over a period of a few months. When refrigerating and / or freezing conditions are used for storage, materials should be allowed to equilibrate to room temperature before opening to prevent pick up of moisture from condensation.

After the containers are opened, use and storage conditions and the possible effects of contamination make shelf limits unpredictable.

Safety and Handling

For Safety and Handling information pertaining to this product, read the Material Safety Data Sheet (MSDS).

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