

TC-533 Flexible Mask

Product Description

Kester TC-533 is a high-temperature flexible solder masking compound specially formulated of natural latex rubber. The latex has been chemically enhanced so that it is heat stable and tacky enough to be applied to those areas of circuit boards, which require masking during a wave soldering process. Kester TC-533 effectively masks and protects the board from the time it is manufactured, through all assembly and flow operations. Kester TC-533 can remain on the protected areas of the board until ready for test, and then, with only a mild pulling action by hand or tweezer-like tools, can be easily peeled away without leaving a residue. Kester TC-533 prevents solder from flowing into contacts, terminals, screw heads and plated through holes.

Performance Characteristics:

- Easily applied
- Will not tarnish gold or phosphor bronze
- Protects delicate components
- Prevents contamination

Physical Properties

Viscosity (typical): 11,500 cps

Brookfield viscometer @ 20rpm and 25°C

Color: White

Application Notes

Parts to be protected must be free from oil, grease and silicones to ensure proper adhesion. Kester TC-533 can be thinned with water and uncured mask left on equipment can be removed with water. A 15-mil thick coat of Kester TC-533 will cure in approximately 45 minutes at room temperature or 15 to 20 minutes at 66°C (150°F). Warming the surfaces prior to application will expedite cure. High relative humidity or greater coating thickness will necessitate longer cure times. Kester TC-533 may be exposed to oven temperatures of 82°C (180°F) and lower for up to 16 hours without degradation. At temperatures of 82-120°C (180-250°F) exposure time should be limited to two hours, at 120-149°C (250-300°F), 30 minutes. Exceeding these exposure times will cause Kester TC-533 to soften and lose elasticity. Exposure of TC-533 to oven temperatures above 149°C (300°F) is not recommended.

Storage and Shelf Life:

Kester TC-533 is subject to freezing. A minimum storage temperature of 0°C (32°F) is recommended. Material should be visually inspected to ensure that it is free from discoloration, coagulation, particles of solidified latex, undispersed thickeners. Shelf life is 6 months from date of manufacture when handled properly and held at 0-25°C (32-77°F).

Health & Safety:

This product, during handling or use, may be hazardous to health or the environment. Read the Material Safety Data Sheet and warning label before using this product.

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