

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.

World Headquarters: 515 E. Touhy Avenue, Des Plaines, Illinois, 60018 USA
Phone: (+1) 847-297-1600 • **Email:** customerservice@kester.com • **Website:** www.kester.com

Asia Pacific Headquarters
 500 Chai Chee Lane
 Singapore 469024
 (+65) 6449-1133
 customerservice@kester.com.sg

European Headquarters
 Ganghoferstrasse 45
 D-82216 Gernlinden
 Germany
 (+49) 8142-47850
 customerservice@kester-eu.com

Japanese Headquarters
 20-11 Yokokawa 2-Chome
 Sumida-Ku
 Tokyo 130-0003 Japan
 (+81) 3-3624-5351
 jpsales@kester.com.sg

The data recommendations presented are based on tests, which we consider reliable. Because Kester has no control over the conditions of use, we disclaim any responsibility connected with the use of any of our products or the information presented. We advise that all chemical products be used only by or under the direction of technically qualified personnel who are aware of the potential hazards involved and the necessity for reasonable care in their handling. The technical information contained herein is consistent with the properties of this material but should not be used in the preparation of specifications as it is intended for reference only. For assistance in preparing specifications, please contact your local Kester office for details.