

C265/C663/C680

PAPER

Saint-Gobain Performance Plastics CHR® C663 is manufactured from thick, high-temperature, laminated paper backing material with silicone pressure-sensitive adhesive. C680 is manufactured from resin-impregnated paper backing material with high-temperature silicone blend pressure-sensitive adhesive.

Typical Properties

Product Number	C265	C663	C680
Backing Material	Paper	Paper	Paper
Adhesive Type	Silicone	Silicone	Silicone
Total Thickness (in.)	.0100	.0095	.0060
Backing Thickness (in.)	.0090	.0065	.0040
Adhesive Thickness (in.)	.0010	.0030	.0020
Adhesion to Steel (oz./in.)	30	60	30
Elongation (% at break)	—	—	5
Tensile Strength (lbs./in.)	—	25	25
Operating Temperature (°F)	—	-100 to 500	-20 to 310
Upper Temperature Limit (550°F) (seconds)		5	5
Color	White	Red	Natural

Values shown are typical. Certified test reports for writing specifications are available.

Applications—C663 is a gold finger/tab protection tape for both horizontal and vertical hot air leveling equipment. Suggested application procedure for **C663**: (1) tape the gold fingers, (2) cold roll the taped boards, (3) heat those taped boards up to 250°F < 5.0 minutes (optional), again (4) cold roll the taped boards, and then (5) run them through HAL processing. For boards hot air leveled more than once, Saint-Gobain Performance Plastics New Haven recommends repeating steps 3-5 prior to each run, and boards should run through the HAL process no longer than 24 hours after taping. Remove used tape from board once reaching room temperature. **C680** is a new high-performance and cost-effective alternative for solder protection of printed circuit board connector fingers. The unique combination of resin-impregnated paper with high-temperature, silicone blend adhesive on one side provides high solder temperature resistance without the tape becoming brittle, resists attack from solvents that make up today's water soluble fluxes, and is easy to handle, apply and remove. For gold finger solder protection, we recommend separate pieces of tape be applied to both sides of the board

which should be pressed down with a pinch roller.

Features/Benefits—C663 offers easy application and an excellent conformability. Its adhesive protects during the rigorous HAL operation, yet removes cleanly, without splitting. **C663** reduces damming at the solder/tape butt line, greatly reduces overall scrap, and is an effective mask in double wrap applications. **C680's** backing paper provides easy handling and removal from roll, and can be torn by hand, without cutting blades. **C680** offers a resistance to flux chemicals and solder temperatures, removes cleanly, and is a great low cost replacement for high-temperature films. There is decreased static generation when tape is removed.

Availability—Factory stock for **C663** is in master rolls 36 yards by 26", but also available in master rolls 60 yards by 26" (non-stock product). Factory stock for **C680** is in master rolls 60 yards by 27". Rolls can be slit in widths ranging from 1/4" to full width. **C663** and **C680** are available without a liner.

Saint-Gobain Performance Plastics Corporation
14 McCaffrey Street
Hoosick Falls, NY 12090
Customer Service: (800) 962-2666
Tel: (518) 686-7301
Fax: (800) 526-8479, (518) 686-4840

www.fff.saint-gobain.com

Limited Warranty: For a period of 6 months from the date of first sale, Saint-Gobain Performance Plastics Corporation warrants this product(s) to be free from defects in manufacturing. Our only obligation will be to provide replacement product for any portion proving defective, or at our option, to refund the purchase price thereof. User assumes all other risks, if any, including the risk of injury, loss or damage, whether direct or consequential, arising out of the use, misuse, or inability to use this product(s). SAINT-GOBAIN PERFORMANCE PLASTICS DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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AFF-1116-PDF-0304-SGCS