

# HP27965/HP27975

## GLASS-SILICONE

**HPP Performance** HPPSTIK HP27965-8R and HP27975-8R are manufactured from silicone rubber/fiberglass cloth backing coated with high-temperature adhesive.

High Performance Products  
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### Typical Properties

Product Number	HP27965-8R	HP27975-8R
Backing Material	Glass-Silicone	Glass-Silicone
Adhesive Type	Silicone	Silicone
Total Thickness (in.)	.0105	.0105
Backing Thickness (in.)	.0070	.0070
Adhesive Thickness (in.)	.0035	.0035
Adhesion to Steel (oz./in.)	45	50
Tensile Strength (lbs./in.)	100	150
Dielectric Strength (volts)	4000	7000
Elongation (% at break)	15	5
Operating Temperature (°F)	-100 to 500	-100 to 500
Color	Blue	White

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

**Applications**—HP27965 and HP27975 are used in the plasma spray process—a method of applying thin coatings of metal or high-temperature ceramics to a surface. The coating is sprayed at high pressure and at extreme temperatures. The tape is applied adjacent to areas of parts, which are to be plasma sprayed. These tapes protect these areas both from the grit blasting, which is used as a surface preparation, and from the actual plasma spray coating. The aerospace industry is the prime market for the use of plasma spray tapes, specifically, jet engine manufacturers, overhaul centers, major airline maintenance centers, Air Force Bases, and Naval Air Rework Facilities (NARFS).

**Features/Benefits**—HP27965/HP27975 tapes designed to withstand both the punishing abrasion of grit blasting and the extreme

temperatures/pressures associated with the plasma spray process. The adhesive is a high-temperature silicone, which allows the product to withstand continuous temperatures up to 500°F and also prevents tape slippage after application. These tapes have excellent strength and flexibility, which allows for easy wrapping of complex shapes and minimizes wrinkling during the flexing of cables.

**Availability**—Factory stock for HP27965 and HP27975 is in master rolls 36 yards by 36". Rolls can be slit in widths ranging from 1/4 to 36". They are available with either a yellow PVC liner (HP27975-8RY) or a Fluorosilicone liner (HP27975-8RK).

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