

HP27255

FILM-PTFE (SKIVED, HIGH-MODULUS)

HPP Performance HPPSTIK HP27255 is manufactured from modified high-modulus PTFE (polytetrafluoroethylene) film coated with high-temperature silicone adhesive.

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Typical Properties

Product Number	HP27255-2	HP27255-3	HP27255-5	HP27255-6
Backing Material	Film-PTFE	Film-PTFE	Film-PTFE	Film-PTFE
Adhesive Type	Silicone	Silicone	Silicone	Silicone
Total Thickness (in.)	.0035	.0045	.0065	.0075
Backing Thickness (in.)	.0020	.0030	.0050	.0060
Adhesive Thickness (in.)	.0015	.0015	.0015	.0015
Adhesion to Steel (oz./in.)	30	35	40	45
Tensile Strength (lbs./in.)	30	45	60	65
Dielectric Strength (volts)	9000	11000	15000	18000
Elongation (% at break)	150	175	275	200
Operating Temperature (°F)	-100 to 500	-100 to 500	-100 to 500	-100 to 500
Color	Gray	Gray	Gray	Gray

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

Applications—The excellent dielectric properties of this product combined with its high-temperature adhesive coating make HP27255 an excellent choice as a high-temperature insulation product. HP27255 is used in phase insulation for bundling end turns, spot bundling and anchoring breakouts. The aerospace industry also uses HP27255 to protect airframe wire harnesses.

Features/Benefits—HP27255's most outstanding properties are its high dielectric and tensile strength, which make it an extremely durable insulation tape. The high temperature properties of the PTFE and silicone adhesive allow HP27255 to perform in continuous temperatures up to 500°F. A high-modulus tape, HP27255 also exhibits low elongation which enables it to be applied with

automatic wrapping equipment. The other outstanding features of HP27255 include chemical inertness as well as low-friction, anti-stick and non-toxic properties, making it the right material for numerous applications. HP27255 meets MIL-I-23594C government specifications.

Availability—HP27255 is available in 2,3,5 and 6 mil thickness. Factory stock for HP27255 is in master log form 36 yards long x 16" wide. Rolls can be slit in widths ranging from 1/4" to 16". HP27255 can also be etched on the topside for bondability and may as well be supplied with a release liner. HP27255-2 is also available with a pigmented black adhesive — properties are unchanged.

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