

H-Series

MULTI-PLY LAMINATES FOR HVOF

Saint-Gobain Performance Plastics CHR® H-Series high-temperature, heavy-duty pressure-sensitive adhesive tape laminations are specifically designed and customized for high energy thermal spray masking. The extreme processing demands of HVOF has lead Saint-Gobain to offer custom combinations consisting of multiple layers of silicone rubber, aluminum foil and fiberglass coated with an aggressive high temperature silicone adhesive for our customers requirements.

Typical Properties

Product Number	Double Ply Tapes		Multi Layer Lamination				
	1515	7575	7595	6595	7525	6525	1525
Construction	Glass-Glass	Rubber/Glass- Rubber/Glass	Rubber/Glass-Foil/Glass				Glass- Foil/Glass
Adhesive Type	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
Adhesive Thickness (in.)	0.0025	0.0025	0.0050	0.0050	0.0045	0.0045	0.0045
Total Thickness (in.)	0.0140	0.0200	0.0230	0.0225	0.0175	0.0170	0.0135
Adhesion to Steel (oz./in.)	30	50	45	45	60	60	60
Tensile Strength (lbs./in.)	175	180	150	150	175	175	150
Operating Temperature (°F)	-100 to 500	-100 to 500	-100 to 500	-100 to 500	-100 to 500	-100 to 500	-100 to 500
Color	Natural	White	White	Blue	White	Blue	Natural

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

Applications— H-Series is used as a high temperature masking tape in thermal spray and high velocity oxygenated fuel (HVOF) processes. The tape is used to protect portions of the part being processed so that it is not exposed to spray. Foil embedded laminates are particularly useful when shape forming is required due to the malleable/memory nature of Aluminum foil.

Features/Benefits—The exceptional abrasion resistance and adhesion properties allow the tape to wear very well during the spraying process. Also, multilayer constructions afford value over single ply tapes, saving time and labor expense of double taping. And, most multilayered tapes withstand prep-blasting so no need to wrap again afterward. All H-Series tapes can continuously withstand temperatures up to 500°F.

Availability—Factory stock for H-Series in master rolls 36 yards by 36 inches. Rolls can be slit in widths ranging from 1/4 to 36" on 3" ID cores. The tape is supplied with a release liner. Custom constructions may involve minimum volume purchases and extended lead times.

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AFF-1439-PDF-0405-SGCS