

ECCOSORB[®] SS Tapes

High Tack Pressure Sensitive Adhesive (PSA) Tapes

Material Characteristics

- ECCOSORB[®] SS-tapes are very high tack pressure sensitive adhesive (PSA) tapes specifically designed for use with Emerson & Cuming Microwave Product's absorbers
- There are several PSA's offered:
 - ECCOSORB[®] SS6M for silicone absorbers
 - ECCOSORB[®] SS3 for urethane absorbers
 - ECCOSORB[®] SSV for vinyl materials
 - ECCOSORB[®] SS9 for ECCOSTOCK[®] PP
- ECCOSORB[®] SS-tapes are cleanly cut with steel roll dies or via water-jet cutting

Applications & Testing

- ECCOSORB[®] SS-tapes are used throughout many applications where high bond reliability and UV resistance is required
- ECCOSORB[®] SS-tapes are ideally suited for applications such as commercial microwave devices where the speed and convenience of a peel and stick adhesive is desired
- ECCOSORB[®] SS6M has been shown effective in applications involving shock and vibration, temperature cycling and high humidity
- Adhesion testing with SS6M was also performed with material attached to a housing at 200 °F for 24 hours, mounted at 90°, and heated to 300 °F for 24 hours. No slouching was seen and bond strength is excellent!
- In general longer residence time yields higher peel values

Availability

- ECCOSORB[®] SS-tapes are factory installed, which utilize a proprietary process resulting in a superior adhesive bond. When applied in this manner, bond strength is far superior when compared to those adhesives applied to the material after its manufacture

Instructions for Use

- Simply peel the release paper off of the adhesive backing and apply
- The use of heat and pressure will help to increase the initial bond of the material to the substrate. Surfaces to be bonded should be cleaned, dry, and free from grease and oil
- ECCOSORB[®] SS3 and SS6M should not be bonded to any material that may contain migrating plasticizers, rather SSV should be used

Typical Properties

	SS6M	SS3	SS9	SSV
Adhesive Type	Acrylic	Acrylic	Synthetic Rubber	Acrylic
Adhesive Carrier	0.5 mil Polyester	0.5 mil Polyester	4.0 mil Polyethylene	0.5 mil Polyester
Tape Thickness	4.5 mils	4.5 mils	45.7 mils	3.1 mils
Peel adhesion to steel (lb./inch width)	4.7	4.7	-	4.7
Tensile Strength, lb./in.	10	10	-	10
Elongation	60%	60%	-	60%
Typical Service Temperature, °F (°C)	-40 to 250 (-40 to 121)	-40 to 250 (-40 to 121)	30 to 150 (-1.1 to 66)	-40 to 250 (-40 to 121)
Material Type	Silicone Absorber	Urethane Absorber	ECCOSTOCK [®] PP	Vinyl

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