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Technical Data Sheet No. 100-20

E-SHIELD WPCU

Copper EMI Shielding with Electrically Conductive PSA

Benefits:

E-SHIELD WPCU is a copper foil for use as an emi/rfi shield against electrical interference. The foils are easy to work with and very effective across a wide range of frequencies, shielding against unwanted signals in or out of rooms and buildings,

E-SHIELD WPCU may be used to form shielded enclosures of almost any size or shape, with primary use in construction with low-cost shielded rooms, shielded anechoic chambers and other shielded test rooms.

E-Shield products are unique as they come with Pressure Sensitive Adhesive (PSA) as the bonding mechanism. PSA offers a no-mess, no odor simple method of application method for applying the E-SHIELD to substrates. E-SHIELD is also available without PSA backing.

TYPICAL PROPERTIES:

Property	Value	Test Method
Substrate	1 oz rolled Copper Foil	
Foil Thickness	0.0014"	
Color	Bright Copper	
Tape Thickness, without liner	0.0035"	PSTC-33 ASTM D-3652
Adhesion to Steel	40 oz/inch	PSTC-1 ASTM D-3330
Tensile Strength	25 lbs/inch	PSTC-31 ASTM D-3759
Elongation	5 %	PSTC-31 ASTM D-3759
Operating Temperature	155°F (Class F)	
Flame Spread	Meets the Requirements of UL 510	

E-SHIELD WPCU is applied like wallpaper, covering all surfaces: floor, walls and ceiling. Other than normal cleanliness, and dust free, no special preparation is required. The foil may be stapled or glued in-place or ordered with a **Pressure Sensitive Adhesive (PSA)** by a minimum of 3" to avoid RF leakage. For maximum effectiveness, seams may be taped with electrically conductive adhesive tape or sealed with an electrically conductive Film. Adjoining sheets must be overlapped, caulk. **E-SHIELD WPCU** is also available with a conductive adhesive.

Do not solder or weld **E-SHIELD WPCU**.

SURFACE PREPARATION:

The surface to which the tape is applied to should be dry, clean and free of grease.

STORAGE TEMPERATURE:

Tape should be stored in a cool, dry area at temperatures of 60°F to 80°F.

AVAILABILITY

Standard roll width of **E-SHIELD WPCU** is 24". Other sizes are available. A variety of lengths are available. Please contact your Representative with your requirements to receiving pricing and ordering information.

All physical properties listed have been obtained from laboratory testing and should not be used for the purpose of writing specifications. This product, as all products, should be tested to determine the suitability for its intended use.

The information in this Technical Data Sheet, although believed to be accurate, is not to be taken as a warranty for which D Technologies assumes legal responsibility, nor as permission or recommendation to practice any patented invention without license. Please remember that many factors can affect the use and performance of a Eagle Group product in a particular application. Given the variety of factors that can affect the use and performance of a Eagle Group product, some which are unique to the user's application and knowledge and control, it is essential that the user evaluate the Eagle Group product to determine whether it is fit for a particular purpose and suitable for the user's method of application.