



CLEANROOM STICKY MAT

General Description:

SIRUS CLEANROOM STICKY MAT is a 30ply contamination control tacky mat that effectively removes dust and dirt on contact. It is composed of 30 easy to peel-off disposable tacky mat sheets, which are especially designed to meet Cleanroom needs. The number of mat layers can be customized according customer need. It removes over 99% of all foot-borne contamination particles from entering the critical environment.

Physical Description:

- A. Pressure Sensitive Adhesive – The adhesive is acrylic-based and contains a non- toxic anti-microbial additive. It has excellent adhesion properties and the coating thickness per ply is 0.030 g/m^2
- B. Film – The film is a priority blend of polyethylene resins. Each ply measures 0.045 mm in thickness, with the bottom layer measuring about 0.045 mm.
- C. Tabs – The pull-tabs are consist of polyolefin film and are numbered consecutively from 30 to 1, which prevents accidentally pulling off more than one sheet.

PHYSICAL PROPERTIES

<u>ITEM</u>	<u>TEST METHOD</u>	<u>Sticky Mat</u>
Film thickness/layer		$0.045 \text{ um} \pm 0.003 \text{ mm}$
Adhesive thickness/layer		$0.030 \pm 5 \text{ g/m}^2$
Peel Adhesion	PSTC – 1	0.130-0.170 KN/m
Tensile strength	ASTM D-882	
Machine direction (longitude)		22 mPa
Transverse direction (latitude)		21 mPa

CHEMICAL RESISTANCE

Although SIRUS STICKY contamination control mats are not specifically designed to resist chemicals, they do offer some resistance to the short-term exposure of several common industrial chemicals.

Chemical	Resistance
Sodium Hydroxide	Good
Sulfuric Acid	Fair
Hydrochloric Acid	Fair
Nitric Acid	Fair
Methanol	Good
Gasoline	Fair
Machine Oil	Good
Motor Oil	Good
Hexane	Fair
Toluene	Poor
M.E.K.	Poor

MAT COMPOSITION

The plastic film layers represent a proprietary polyethylene film which resin is produced via high-pressure technology. This method eliminates the use of heavy metal catalysts and no measurable amounts of cadmium, chlorine, sodium or lead are present in the film.

The pressure sensitive adhesive is acrylic based and is free of any metal cross-linking agents. The top and bottom release films are also polyethylene film and contain no release coatings.