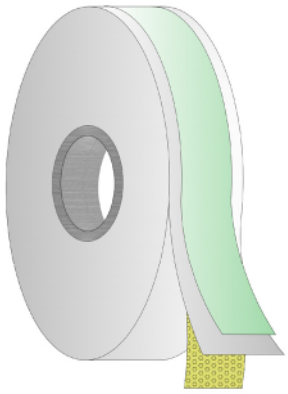
TECHNICAL SPECIFICATION

Mask Tape



Description

The use of electrically conductive fabric with an electrochemical treatment of pure nickel on all of the fibres is an optimum characteristic for recreating an electrical surface for an electrical control panel that has to be protected with powder coating that is not electrically conductive. This treatment would create an insulated contact surface for the shielded gasket, which must have electrical continuity. Therefore, the recommended action is to proceed as follows.

Applications

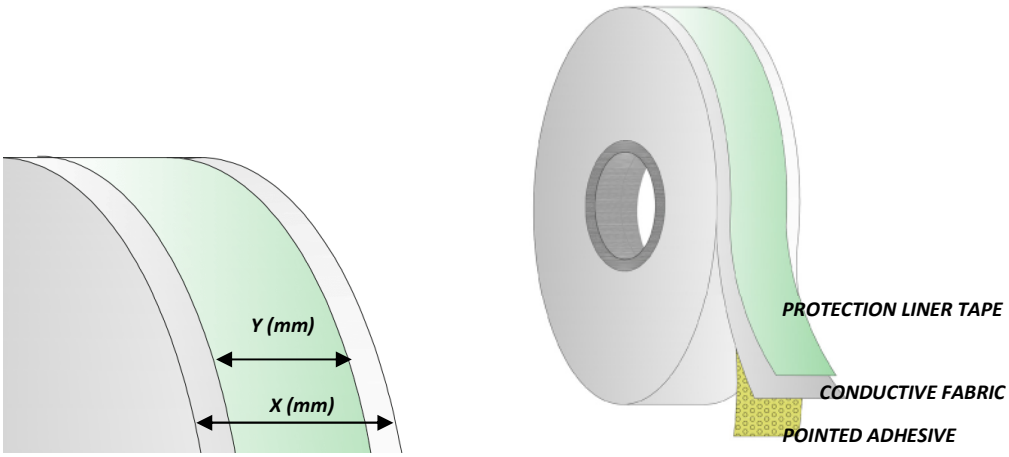
Define within the electrical control panel in steel or aluminium the parts on the surface where the conductive gaskets are to be installed and their areas of contact. Remove the film from the conductive tape and apply it to the surface that requires shielding.
In this way the cabinet may be painted with powder coating.
The impenetrable mask protects the conductive self adhesive tape. After painting and cooling of the locker, the mask can be removed and the conductive tape will remain fixed in its place.

Provision

There are various dimensions available in that tapes are realized upon specific client request, permitting the protection and the creation of the conductive area useful for conduction between the gasket in compression and the fixed part.

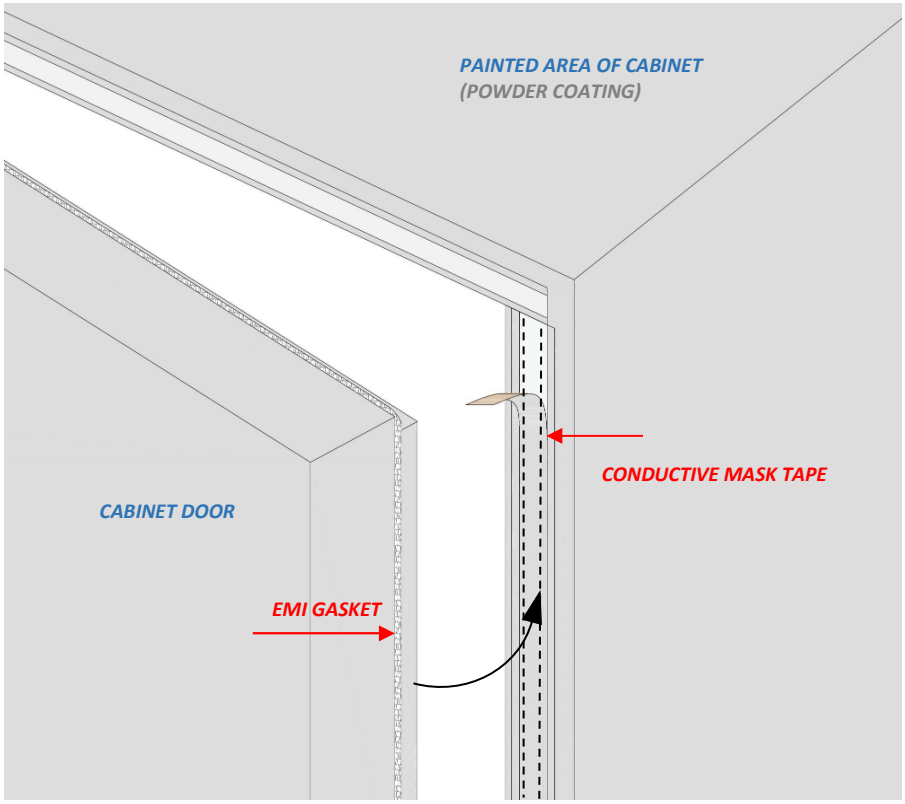
PART NUMBER FOMULATION

N.T.P.X.Y.SC.ADP180.PET. MASK TAPE



Standard size*	
X	Y
25,4 mm (1”)	22,0 mm
12,7 mm (1/2”)	10,7 mm

Other sizes are available upon customer request with a minimum order



Application example

Technical data	
Conductive fabric	STATIC CLEAN (Polyester fabric - 100% Nickel coating)
Adhesive type	Acrylic modified. Pointed adhesive. The adhesive area is 40%. The adhesive is resistant to solvents and chemicals.
Protective Liner	INTERTAPE VERDE: Green tape on a polyester support with adhesive silicone
Adhesion to steel or aluminum	Initial: Excellent - Final: Excellent
Thickness	Liner: 0.08 mm Tape: 0.30 mm
Surface Resistivity	<0.4 Ohm
Operating temperature	-40 / + 90°C
Paint cure cycle temperature	180 -200 °C depending on the duration of the cycle. It is recommended to test if the cycle exceeds these temperature.

SHIELDING PERFORMANCE (TEST REPORT N.6900)

	Magnetic field (dB)				Electric field (dB)			
Frequency (MHz)	3	10	20	30	2	10	20	30
1 layer	15	20	30	40	105	65	62	65

	Electric field and plane wave (dB)							Plane Wave (dB)					
Frequency (MHz)	200	400	500	600	700	800	900	1000	3000	5000	10000	15000	18000
1 layer	55	65	60	62	60	70	60	60	62	63	53	53	55