



SF100PAL: RFI-EMI shielding aluminum sheets

A high performance, cost-effective sheet shielding material. Very good electrical and thermal conductivity, high reflectivity and resistance to oxidation and corrosive environments. Composition is a four-layer matrix of static dissipative-EMC coating/polyester/aluminum/polyethylene

Part Number	Description	Width	Length	Thickness	Attenuation (dB)			
					500KHz	100MHz	300MHz	1GHz
SF100PAL	Polyester w/Al	36" (914.4mm)	36" (914.4mm)	.0028" (.07mm)	≥48	≥65	≥65	≥60
SF100PAL-FULLROLL			600' (182m)					

Electrical Properties	Method	Value
Resistivity - Conductive Metal Layer	ASTM D-257	< 50 Ohm/in ²
Surface Resistivity (Outer/Inner)	ASTM D-257	< 10 ¹² Ohm/in ²
Electrostatic Decay	FTMS 101C (5000 to 0 V)	< 0.03 sec.
Capacitive Probe Test	EIA 541	< 20 V
Charge Generation	Modified Incline Plane	Teflon: -0.09 nC/in ²
	Modified Incline Plane	Quartz: +0.10 nC/in ²

Physical Properties	Method	Value
Total Thickness	TAPPI T411	2.8 mil
Light Transmission	ASTM D-1003-77	40% +/- 5%
Tensile Strength	TAPPI T494	MD: 5800 lbs./in ²
		TD: 6600 lbs./in ²
Tear Strength	D1004-66 Notched	MD: 2.5 lbs.
		TD: 2.0 lbs.
Burst Strength	FTMS 191-C Method 5122	50 lbs./in ²
Puncture Strength	FTMS 101-C Method 2065.1	> 12 lbs.
Moisture Vapor Transmission Rate	ASTM F-1249	0.3 g/100 in ² 24 hours
Oxygen Transmission Rate	ASTM D-3985	0.5 cc/100 in ² 24 hours