Metallized Film Datasheet

Tek Pak is now offering metallized plastic film for a variety of potential applications. Through a proprietary process, tin is coated on one side of high-temperature plastic film. This gives the film superior electrical conductivity on one side, yet retains excellent dielectric properties on the other. The 5-micron thick tin coating provides better shielding effectiveness compared to films with vacuum deposited metal coatings. Another unique feature is that the chemical bond of the tin coating to the plastic is such that it can be thermoformed into deeply drawn shapes while the tin coating stays intact.

- Electrically conductive on one side and insulative on the other
- Superior shielding effectiveness
- Thermoformable
- Excellent plastic layer properties
    - High dielectric strength
    - Heat resistant
    - Thermal barrier
    - Flame resistant
- Markets
    - Aerospace
    - Military
    - Electronics—Medical, Consumer, Automotive
    - EMC/EMI/ESD
    - Secure Facilities

Material Property	Value	Method
Thickness	0.125 mm	-
Roll Width	580 mm	-
Roll Length	Up to 275 m	-
Shielding Effectiveness	75 dB	ASTM D4935
Surface Resistivity	0.025 Ohms/square	ASTM F390
Metallization Adhesion	5B	ASTM D3359
Metallization Thickness	5 microns	SEM
Dielectric Strength	80 kV/mm	ASTM D149
Vicat Softening Temp. B	215°C	ASTM D1525

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