

# I-Forward Technology Co., Limited

## Static Control Polymer TAS0904

### Product Description

TAS0904 is static dissipative material mainly formed by Poly-propylene and Carbon powder, which can provide super permanent ESD protection performance.

Properties(typical)	TAS0904	Units	Test Method
Host polymer	Poly-propylene		
Filler	Carbon Powder		
Color	Black		
Specific Gravity	0.9	g/cc	ASTM D792
<b>Mechanical Properties</b>			
Tensile Strength @ yield	24	Mpa	ASTM D638
Tensile Modulus	1520	Mpa	ASTM D638
Elongation at Break	200	%	ASTM D638
Thermal deformation temperature	90	°C	ASTM D648
<b>Electrical properties:</b>			
Surface resistance	10E4~10E9	Ω	ESD S11.11
Volume resistance	10E4~10E9	Ω -cm	ASTM D257
Static decay time	<0.8	seconds	FTMS-101C
Static charge	<2	volt	
Tribo-charge	<15	volt	
<b>Cleanliness:</b>			
Non volatile residue	≤ 7.0	ug/cm sq.	
Out-gassing(SHS)	≤ 8	ug/g	
Ionic:			
Chloride	<0.02	ug/cm sq	
Fluoride	<0.03	ug/cm sq	
Sulfate	<0.03	ug/cm sq	
Nitrate	<0.02	ug/cm sq	
Phosphate	ND	ug/cm sq	
Bromide	ND	ug/cm sq	
Organic contamination (Silicone oil, amide and DOP)	ND	ug/cm sq	