

I-Forward Technology Co., Limited

Static Control Polymer TAS0201

Product Description

TAS0201 is static dissipative material mainly formed by poly-carbonate and Carbon Nano Tube (CNT), which can provide super permanent ESD protection performance as well as good cleanness.

Properties(typical)	TAS0201	Units	Test Method
Host polymer	Poly-carbonate		
Filler	CNT		
Color	Black		
Specific Gravity	1.2	g/cc	ASTM D792
Mechanical Properties			
Tensile Strength @ yield	64	Mpa	ASTM D638
Tensile Modulus	1585	Mpa	ASTM D638
Elongation at Break	13	%	ASTM D638
Flexural Strength	86	Mpa	ASTM D790
Flexural Modulus	2781	Mpa	ASTM D790
Izod impact strength Notched	74	Kj/m ²	ASTM D256
B50 Vicat softening temperature	140	°C	
Electrical properties:			
Surface resistance	10E5~10E10	Ω	ESD S11.11
Volume resistance	10E5~10E9	Ω-cm	ASTM D257
Static decay time	<0.7	seconds	FTMS-101C
Static charge	<2	volt	
Tribo-charge	<5	volt	
Cleanliness:			
Non volatile residue	≤ 5.0	ug/cm sq.	
Out-gassing(SHS)	≤ 10	ug/g	
Ionic:			
Chloride	<0.02	ug/cm sq	
Fluoride	<0.02	ug/cm sq	
Sulfate	<0.01	ug/cm sq	
Nitrate	<0.01	ug/cm sq	
Phosphate	ND	ug/cm sq	
Bromide	ND	ug/cm sq	
Organic contamination (Silicone oil, amide and DOP)	ND	ug/cm sq	