



**Engineering  
Plastics**

**QUANDA**

Shenzhen Quanda Plastic Co.,Ltd.  
Web: www.quandaplastic.com  
Email: info@quandaplastic.com  
Tel:0086-755-28113160



# Typical Properties Data Sheet

The Supplier of Engineering Plastics  
Rods, Sheets, Tubes, Profiles and Machining Parts

## Sufoner®Antistatic PEI Technical Property Data Sheet

### ①raw materials data

<b>Standard grade:</b>	Extrusion grade	<b>Appearance color:</b>	---
<b>Application:</b>	Processing material , rod, plate; test fixture for semiconductors, semiconductor manufacturing liquid crystal device components, wafer processing fixture, sensitive electronic components, clean dust cover equipment, electrical or electronic semiconductor transport equipment.		
<b>Characteristics:</b>	Antistatic,excellent dimensional stability, electrical insulation, flame retardation, less burning smoke, high temperature resistance, radiation resistance, high mechanical properties.		

### ②raw materials technical data

Property item	Test conditions(status)	Test method	Test data	Unit
<b>I.Physical properties</b>				
Density	---	ASTM D792	1.27	g/cm <sup>3</sup>
Shrinkage	---	ASTM D955	0.6	%
Equilibrium water absorption	23°C 60%RH	ASTM D570	0.02	%
Flammability class	---	UL94	V0	Class
<b>II.Mechanical properties</b>				
Tensile strength	---	ASTM D-638	110	MPa
Elongation at break	---	ASTM D-638	60	%
Flexural strength	---	ASTM D-790	150	MPa
Flexural modulus	---	ASTM D-790	3000	MPa
Hardness- Shore D	---	ASTM D-2240	90	D
Charpy impact strength	---	ASTM D-256	40	J/M
Friction coefficient	---	ASTM D1884	---	---
<b>III.Thermal properties</b>				
Heat deflection temperature-HDT/A	---	ASTM D648	210	°C
Max.working temperature-short time	---	UL746B	220	°C
Max. working service temperature-long time	---	UL746B	180	°C
Brittle transition temperature	---	ASTM D746	---	---
Thermal conductivity	---	ASTM C177	0.24	W/(m·K)
Coefficient of linear thermal expansion	---	ASTM D696	3	10 <sup>-5</sup> K <sup>-1</sup>
<b>IV.Electrical properties</b>				
Dielectric constant	---	IEC 60250	---	10 <sup>6</sup> Hz
Dielectric dissipation factor	---	IEC 60250	---	10 <sup>6</sup> Hz

<b>Dielectric strength</b>	---	IEC 60243	---	kV/mm
<b>Volume resistivity</b>	---	IEC 60093	$10^6 \sim 10^9$	$\Omega \cdot \text{cm}$
<b>Surface resistivity</b>	---	IEC 60093	$10^6 \sim 10^9$	$\Omega$

**NOTE:**  $1 \text{ g/cm}^3 = 1,000 \text{ kg/m}^3$ ,  $1 \text{ Mpa} = 1 \text{ N/mm}^2$ ,  $1 \text{ kV/mm} = 1 \text{ MV/m}$

**STATEMENT:**

**NOTE:** The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Quanda will not provide any legally binding guarantee of certain properties, or any suitability.