



**Engineering  
Plastics**

**QUANDA**  
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# Typical Properties Data Sheet

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

## Sufoner® PEI Properties Data Sheet

### ① Raw material description

<b>Standard Grade:</b>	Extrusion grade	<b>Appearance color:</b>	---
<b>Application:</b>	Processing materials,rod, sheet.Used for medical accessories,electronic socket,high temperature transformer in automobile shed,aircraft interior parts.		
<b>Remarks:</b>	Charactor:High temperature resistance,high strength,high weather-proof,high radiation resistance,high modulus,chemical resistance.		

### ② Raw material technical datasheet

Property item	Test conditions	Testing method	Testing data	Unit
<b>I.Physical property</b>				
Density	23°C	ASTM D792	1.27	g/cm <sup>3</sup>
Shrinkage	---	ASTM D955	0.6	%
Water absorption	---	ASTM D570	0.25	%
Flammability class	---	UL94	V0	Class
<b>II .Mechanical property</b>				
Tensile strength	23°C	ASTM D638	110	MPa
Elongation at break	---	ASTM D638	60	%
Flexural strength	23°C	ASTM D790	106~230	MPa
Compression strength	23°C	ASTM D790	150~163	MPa
Hardness-Shore D	---	ASTM D2240	82	D
Impact strength	---	ASTM D256	140	KJ/m <sup>2</sup>
Impact strength (notched)	23°C	ASTM D256	>6	KJ/m <sup>2</sup>
Coefficient of friction	---	ASTM D1884	0.34~0.36	---
<b>III.Thermal property</b>				
Thermal deformation temperature	1.82MPa	ASTM D648	200~210	°C
Max. working temperature( short time)	---	UL746B	200	°C
Max. working temperature(long time)	---	UL746B	170	°C
Brittle temperature	---	ASTM D746	---	---
Thermal conductivity	23°C	ASTM C177	0.24	W/(m*K)
Coefficient linear thermal expansion	---	ASTM D696	0.56	10 <sup>-5</sup> K <sup>-1</sup>
<b>IV.Electrical property</b>				
Dielectric constant	1 MHz	IEC 60250	3.3	10 <sup>6</sup> Hz
Dielectric loss angle tangent	1 MHz	IEC 60250	0.003	10 <sup>6</sup> Hz
Dielectric strength	1.5mm	IEC 60243	36~42	kV/mm

Volume resistivity	23°C	IEC 60093	10 <sup>15</sup>	Ω * cm
Surface resistivity	23°C	IEC 60093	10 <sup>16</sup>	Ω
<p><b>NOTE:</b> 1 g/cm<sup>3</sup> = 1,000 kg/m<sup>3</sup>, 1 Mpa = 1 N/mm<sup>2</sup>, 1kV/mm = 1 MV/m</p> <p><b>Statement:</b></p> <p><b>NOTE:</b> 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.</p>				