



**Engineering
Plastics**

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 PEEK Properties Data Sheet

①Raw material description				
Standard Grade:	Extrusion grade	Appearance color:	black color	
Application:	Semiconductor processing auxiliary materials, semiconductor parts, Industrial explosion-proof field, used to avoid the application of static electricity. Often used Handles highly sensitive components in semiconductor production, reducing production processes Damage or destruction of intermediate parts significantly.			
Charactors:	● Excellent sliding and friction performance ● High strength and rigidity ● High dimensional stability ● Excellent antistatic property, surface resistivity 106-109Ω / sq, Uniform surface resistance ● Black material with uniform color ● The product does not precipitate low-molecular substances and does not give off black substances, so it is clean .			
②Raw material technical data sheet				
Property item	Test conditions	Testing method	Testing data	Unit
I.Physical property				
Density	---	ISO1183	1.42-1.45	g/cm ³
Shrinkage	---	ISO 294-4	1.0~1.3	%
Water absorption	24h dipping (23°C)	ISO 62	0.42	%
Flammability class	1.5mm	UL94	V-0	Class
II .Mechanical property				
Tensile yield strength	23°C	ISO 527	95-100	MPa
Tensile modulus	23°C	ISO 527	≥1.9	Gpa
Notched impact strength(Simply supported beam)	23°C	ISO 179	12	kJ/m ²
Elongation at break	23°C	ISO 527	≥7.0	%
Flexural strength	23°C	ISO 178	128	MPa
Flexural modulus	23°C	ISO 178	4300	MPa
Hardness-Shore D	23°C	ISO 868	84-86	D
Coefficient of friction	---	ISO 9352	0.34	---
III.Thermal property				
Thermal Deflection temperature under load	1.80MPa	ASTM D648	315	°C
Continuous working temperature(long time)	---	KCI Method	260	°C
Melting point	---	ISO 3148	310	°C
Thermal conductivity	23°C	DIN 11359	0.25	W/(K-M)
Coefficient of linear thermal expansion	0°C to 140°C(x10 5/°C)	ASTM D696	1.5	°C
IV .Electrical property				
Volume resistivity	23°C	IEC 61340-2-3	10 ⁶⁻⁹	(Ω) * cm
Surface resistivity	23°C	IEC 61340-2-3	10 ⁶⁻⁹	(Ω)
Remarks: Antistatic performance is characterized by surface resistivity (unit Ω / sq), such as the concentric circle electrode method and parallel electrode method mentioned in IEC62631-2-3, Concentric circle electrode method mentioned in IEC 61340-2-3 and ANSI / ESD STM11.11. This product is preferred to test the surface resistivity of concentric cirle electrodes.				
NOTE: 1 g/cm ³ = 1,000 kg/m ³ , 1 Mpa = 1 N/mm ² , 1kV/mm = 1 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.				