



Qunsail® Conductive POM Technical Property Data Sheet

①raw materials description

Standard grade:	Extrusion grade	Appearance color:	Black
Application:	High stress parts, processing material, plates, rods, used for fixtures, rails, trays, rollers, linings, and electronic equipment.		
Characteristics:	High mechanical strength, high hardness, high rigidity, non-absorbent, good self-lubricating property.		

②raw materials technical data

Property item	Test conditions(status)	Test method	Test data	Unit
I.Physical properties				
Density	---	ASTM D792	1.43	g/cm ³
Shrinkage	---	ASTM D955	1.8-2.2	%
Equilibrium water absorption	23°C 60%RH	ASTM D570	0.26	%
Flammability class	---	UL94	HB	Class
II.Mechanical properties				
Tensile strength	---	ASTM D-638	70	MPa
Elongation at break	---	ASTM D-638	20	%
Flexural strength	---	ASTM D-790	100	MPa
Flexural modulus	---	ASTM D-790	2800	MPa
Hardness- Shore D	---	ASTM D-2240	80	D
Charpy impact strength	---	ASTM D-256	50	J/M
Friction coefficient	---	ASTM D1894	---	---
III.Thermal properties				
Heat deflection temperature-HDT/A	---	ASTM D648	120	°C
Max.working temperature-short time	---	UL746B	130	°C
Max.working temperature-long time	---	UL746B	100	°C
Melting point	---	ASTM D2133	170	°C
Brittle transition temperature	---	ASTM D746	-40	°C
Thermal conductivity	---	ASTM C177	0.33	W/(m*K)
Coefficient of linear thermal expansion	---	ASTM D696	1.3	10 ⁻⁵ -1/K
IV.Electrical properties				
Dielectric constant	---	ASTM D150	---	(Ω) * cm
Dielectrical dissipation factor	---	ASTM D150	---	(Ω) * cm
Dielectrical strength	---	ASTM D149	---	kV/mm
Volume resistivity	---	ASTM D257	10 ⁴	(Ω) * cm

Surface resistivity	--	ASTM D257	10 ⁴⁻⁵	(Ω)
---------------------	----	-----------	-------------------	-----

NOTE: 1 g/cm³ = 1,000 kg/m³, 1 Mpa = 1 N/mm², 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.