



**Engineering
Plastics**

QUANDA

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Typical Properties Data Sheet

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

Qunsail®POM+MoS2 Technical Property Data Sheet

①raw materials description

Standard grade :	Extrusion grade	Appearance colors:	---
Application:	High stress parts, processed materials, plate; electronic gear, electronic components, plumbing parts, sprayer parts, car tees, taps, agricultural irrigation appliances.		
Characteristics:	Excellent wear-resistant, high mechanical strength, excellent dimensional stability, self-lubricating properties, high surface hardness.		

②raw materials technical data

Property item	Test conditions(status)	Test method	Test data	Unit
I.Physical properties				
Density	23°C	ASTM D792	1.46	g/cm ³
Shrinkage	---	ASTM D955	1.8-2.2	%
Equilibrium water absorption	23°C 60%RH	ASTM D570	0.5	%
Flammability class	---	UL94	HB	Class
II .Mechanical properties				
Tensile strength	---	ASTM D-638	64	MPa
Elongation at break	---	ASTM D-638	20	%
Flexural strength	---	ASTM D-790	84	MPa
Flexural modulus	---	ASTM D-790	2800	MPa
Hardness-Shore D	---	ASTM D-2240	85	D
Impact strength	---	ASTM D-256	50	J/M
III.Thermal properties				
Heat deflection temperature-HDT/A	1.80MPa	ASTM D648	130	°C
Max. working temperature-short time	---	UL746B	150	°C
Max. working temperature-long time	---	UL746B	100	°C
Melting point	---	ASTM D2133	190	°C
Thermal conductivity	23°C	ASTM C177	0.33	W/(m*K)
Coefficient of linear thermal expansion	23°-55°C	ASTM D696	1.3	10 ⁻⁵ K ⁻¹
IV.Electrical properties				
Dielectric constant	---	ASTM D149	---	(Ω) * cm
Dielectric dissipation factor	---	ASTM D150	---	(Ω) * cm
Dielectric strength	---	ASTM D149	---	kV/mm
Volume resistivity	---	ASTM D257	10 ¹⁴	(Ω) * cm
Surface resistivity	---	ASTM D257	10 ¹⁶	(Ω)

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.