



**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+PTFE30% Technical Property Data Sheet

### ①raw materials description

<b>Standard grade:</b>	Extrusion grade	<b>Appearance colors:</b>	---
<b>Application:</b>	High stress parts, processing material, plates;used in gears, bushings, cams and other abrasion applications.		
<b>Characteristics:</b>	Low coefficient of friction, wear resistance,no creep phenomenon substantially, good creep resistance; high impact strength at low temperature,,good dimensional stability; The sliding performance is better than pure POM, excellent mechanical properties; physiologically inert, suitable for contact with food.		

### ②raw materials technical data

Property item	Test conditions(status)	Test methods	Test data	Unit
<b>I.Physical porperties</b>				
Density	---	ASTM D792	1.5	g/cm <sup>3</sup>
Shrinkage	3.2mm	ASTM D955	1.9-2.2	%
Equilibrium water absorption	23°C 60%RH	ASTM D570	0.26	%
Flammability class	---	UL94	HB	Class
<b>II.Mechanical properties</b>				
Tensile strength	---	ASTM D-638	55	MPa
Elongation at break	---	ASTM D-638	30	%
Flexural strength	---	ASTM D-790	80	MPa
Flexural modulus	---	ASTM D-790	1700	MPa
Hardness-Shore D	---	ASTM D-2240	80	D
Impact strength	---	ASTM D-256	40	J/M
Friction coefficient	---	ASTM D1894	0.35	---
<b>III.Thermal properties</b>				
Heat Dielectric Temperature-HDT/A	---	ASTM D-648	130	°C
Max.working temperature-short time	---	UL746B	150	°C
Max. working temperature-long time	---	UL746B	100	°C
Melting point	---	ASTM D-3418	175	°C
Thermal conductivity	---	ASTM C-177	0.31	W/(m*K)
Coefficient of linear thermal expansion	---	ASTM D-696	10	10 <sup>-5</sup> K <sup>-1</sup>
<b>IV.Electrical properties</b>				
Dielectric constant	---	ASTM D-149	3.6	---
Dielectric dissipation factor	---	ASTM D-150	0.007	---
Dielectric strength	---	ASTM D-150	19	kv/mm
Volume resistivity	---	ASTM D-257	10 <sup>14</sup>	Ω.cm
Surface resistivity	---	ASTM D-257	10 <sup>16</sup>	(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.**