



**Engineering
Plastics**

QUANDA

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

Benlonate® PC+ABS30% Technical Data Sheet

① raw materials description

Standard grade:	Extrusion grade	Appearance colors:	---
Application:	Processing material , rod, sheet, plate, pipe; apply in electrical instruments, camera parts, auto parts, light industrial products and office supplies.		
Characteristics:	Processing liquidity has improved significantly, excellent solvents resistance such as gasoline, good coloring properties;Electrical properties and mechanical properties is similar to pure PC. Good impact resistance.		

② raw materials technical data

Property item	Test conditions(status)	Test methods	Test data	unit
I.Physical porperties				
Density	23°C	ASTM D792	1.18	g/cm ³
Molding shrinkage	3.18mm	ASTM D955	0.5~0.7	%
Water absorption	23°C, 24 hr	ASTM D570	0.12	%
Flammability class	---	UL94	HB	Class
II .Mechanical properties				
Tensile strength	---	ASTM D638	62	MPa
Elongation at break	23°C	ASTM D638	40	%
Elongation rate		ASTM D638	>10	%
Elastic strength	---	ASTM D790	103	MPa
Elastic modulus	---	ASTM D790	3448	MPa
Tensile modulus	---	ASTM D638	3448	MPa
Hardness-Rockwell	---	ASTM D785	110	R (Scale)
Impact strength (Notched)	3.18 mm	ASTM D256	80	J/m
Impact strength (No notch)	3.18 mm	ASTM D256	1602	J/m
III.Thermal properties				
Heat deflection temperature-HDT/A	1.8MPa	ASTM D648	93	°C
Max. working temperature-long time	---	UL746B	90	°C
Vicat softening temperature	50N,120°C/h	ASTM D-1525	125	°C
Brittle temperature	---	ASTM D746	>-40	°C
Thermal conductivity	23°C	ASTM C177	0.16~0.29	W/(m*K)
Coefficient of linear thermal expansion	23°~55°C	ASTM D696	0.85	10 ⁻⁴ K
IV.Eiectrical properties				
Dielectric constant	---	ASTM D150	2.7	10 ⁶ Hz
Dielectric dissipation factor	---	ASTM D150	---	---
Dielectric strenght	---	ASTM D149	---	---
Volume resistively	---	ASTM D257	≥10 ¹⁴	Ω * m

Surface resistivity	---	ASTM D257	$\geq 10^{13}$	Ω
Anti-tracking resistance	---	ASTM D495	---	---

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.