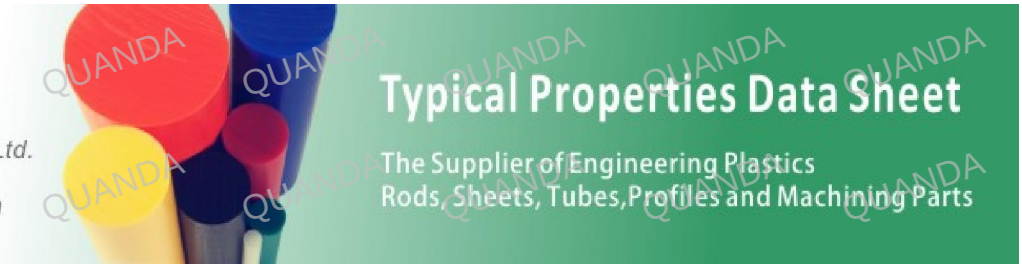
Engineering Plastics
QUANDA
Shenzhen Quanda Plastic Co.,Ltd.
Web.:www.quandaplastic.com
Email: info@quandaplastic.com
Tel:0086-755-28113160



Quanda PBT Properties Data Sheet

①Raw material description			
Standard Grade:	Extrusion grade	**Appearance color:**	---
Application:	Processing materials,rod,sheet,board.Used in electronics,electromagnetic switch,shell,automobile,bumper bar,fender,Rims ,industrial components: keyboard,components,lampshade.		
Remarks:	Charactors: The tensile strength and tensile modulus are similar with Nylon,low coefficient of friction and sulf-lubricating,low water absorption, superior electrical property,dimensional stability, excellent chemical resistance&oil resistance.		

②Raw material technical data sheet

Property item	Test conditions	Testing method	Testing data	Unit
I.Physical property				
Density	---	ASTM D792	1.31	g/cm^3
Shrinkage	---	ASTM D955	1.2~2.2	%
Water absorption	---	ASTM D570	＜0.09	%
Flammability class	---	UL94	V-1	Class
Ⅱ.Mechanical property				
Tensile strength	---	ASTM D638	55	MPa
Elongation at break		ASTM D638	200~300	%
Flexural strength		ASTM D790	85	MPa
Compressive strength		ASTM D790	11.9	MPa
Hardness-Rockwell	---	ASTM D785	72	M（Scale）
Impact strength	---	ASTM D256	30	KJ/m^2
Impact strength (Chipped)	---	ASTM D256	4.31	KJ/m^2
Coefficient of fricction	---	ASTM D1894	0.326	---
Ⅲ.Thermal property				
Thermal deformation temperature	1.82MPa	ASTM D648	58	℃
Max. working temperature(long time)	---	UL746B	120	℃
Coefficient of linear thermal expansion	---	ASTM D696	8.8~9.6	$10^{-5}K^{-1}$
Ⅳ.Electrical property				
Dielectric constant	1 MHz	ASTM D150	3.1	---
Dielectric loss angle tangent	1 MHz	ASTM D150	2.4×10^{-2}	---
Dielectric strength	1.5mm	ASTM D149	17	kV/mm
Volume resistivity	---	ASTM D257	10^{16}	Ω * cm
Surface resistivity	---	ASTM D257	10^{16}	Ω

Electric arc resistance	---	ASTM D495	125~190	sec

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.