Engineering Plastics
QUANDA
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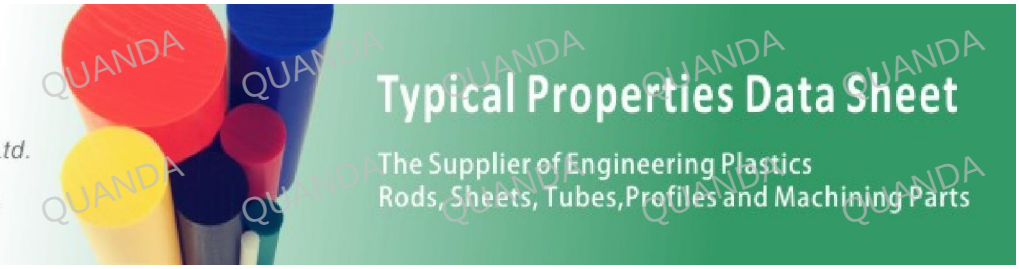

Recalon® PA66+GF30% Properties Data Sheet

①Raw material description			
Standard Grade:	Extrusion grade	**Appearance color:**	---
Applications:	Processing material,sheet,strip,tube,used in machinery,instrument,automobile components,electronics,railway,household appliances,communication,frame,pipeline and other precision engineering.		
Remarks:	Charactor: With excellent abrasive resistance,self-lubricating,special heat stability,high mechanical strength.		

②Raw material technical datasheet

Property item	Test conditions	Testing method	Testing data	Unit
I.Physical property				
Density	23°C	ASTM D792	1.3~1.4	g/cm^3
Shrinkage	---	ASTM D955	0.3~0.6	%
Absorption	24hr steeping（23°C)	ASTM D570	0.7	%
Flammability class	---	UL94	HB	Class
Ⅱ.Mechanical property				
IZOD impact strength	23°C,DAM	ASTM D256	107	J/m
IZOD impact strength	23°C,50%RH	ASTM D256	133	J/m
Tensile strength	23°C,DAM	ASTM D638	196.1	MPa
Tensile strength	23°C,50%RH	ASTM D638	124.1	MPa
Shear strength	23°C	ASTM D732	＞86	MPa
Elongation at break	23°C,DAM	ASTM D638	3	%
Elongation at break	23°C,50%RH	ASTM D638	4	%
Flexural strength	23°C,DAM	ASTM D790	262	MPa
Flexural strength	23°C,DAM	ASTM D790	8963	MPa
Flexural strength	23°C,50%RH	ASTM D790	6205	MPa
Hardness-Rockwell	---	ASTM D785	117	R（Scale）
Charpy impact strength（unnotched)	23°C	ASTM D6110	75	kJ/m²
Charpy impact strength（notched)	23°C	ASTM D6110	15	kJ/m²
Coefficient of friction	_ _3	ASTM D1894	＜0.15	---
Coefficient of friction	_ _4	ASTM D1894	0.4	---
Ⅲ.Thermal property				
Thermal deformation temperature	1.80MPa	ASTM D648	249	℃
Max. working temperature(long time)	---	UL746B	120	℃
Melting temperature	DAM	ASTM D789	255	℃
Brittle temperature	---	ASTM D746	—30	℃
Thermal conductivity	23°C	ASTM C177	0.4	W/(m*K)

Coefficient of linear thermal expansion	---	ASTM D696	$2.3x10^{-5}$	m/m/°C
Ⅳ.Electrical property				
Dielectric constant	1 MHz	ASTM D150	4	10^6Hz
Dielectric loss angle tangent	1 MHz	ASTM D150	0.02	10^6Hz
Dielectric strength	3mm	ASTM D149	17-20	kV/mm
Volume resistivity	DAM	ASTM D257	10^{15}	Ω * cm
Volume resistivity	100%RH	ASTM D257	10^{14}	Ω * cm
Surface resistivity	---	ASTM D257	10^{16}	Ω
Electric arc resistance	---	ASTM D495	114-120	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.**				