



## PUYANG SHENGTONG JUYUAN NEW MATERIAL CO., LTD

### JY-PC-903WB Technical Data Sheet

#### Product information

Manufacturer	Puyang Shengtong Juyuan New Material Co., Ltd
Other Certificates	MSDS
Material identification	PC
Color	Blue
Material shape	Granular
Processing methods	Injection molding, Blow Molding
Flammability	HB V-2
Viscosity	High viscosity
Material Properties	bottle grade PC, blue, blow molding

#### Physical Properties

	Test conditions	Test method	Test data
Density		ISO 1183	1200 kg/m <sup>3</sup>
Molding shrinkage	Parallel		0.70%
	Normal		0.70%
Melt volume-flow rate	300°C, 1.2kg	ISO 1133	3.1 cm <sup>3</sup> /10min
Melt mass-flow rate	300°C, 1.2kg	ISO 1133	3.3 g/10min
Water absorption	23°C	ISO 62	0.24%

#### Mechanical properties

	Test conditions	Test method	Test data
Tensile strength	50mm/min	ISO 527-1-2	63MPa
Tensile modulus	50mm/min	ISO 527-1-2	2300MPa
Strain at break	50mm/min	ISO 527-1-2	96.70%
Flexural strength	2mm/min	ISO 178	93MPa
Flexural modulus	2mm/min	ISO 178	2350MPa
Izod notched impact strength	23°C	ISO 180A	70.0KJ/m <sup>2</sup>

#### Flammability impact strength

	Test conditions	Test method	Test data
Burning behavior	0.75mm	UL 94	V-2
Burning behavior	1.5-2.4mm	UL 94	V-2
Burning behavior	2.5mm	UL 94	HB
Burning behavior	3.0mm	UL 94	HB
Burning behavior	6.0mm	UL 94	HB

#### Thermal properties

	Test conditions	Test method	Test data
Temperature of deflection under load	0.45MPa	ISO 75-2/B	139°C
	1.8 MPa	ISO 75-2/A	129°C
Coefficient of linear thermal expansion	MD	ISO 11359-2	6.50E-05 1/°C
	TD	ISO 11359-2	6.60E-05 1/°C

#### Electrical properties

	Test conditions	Test method	Test data
Volume resistivity		IEC60093	3.0E+14 Ω.M
Surface resistivity		IEC60093	6.0E+15 Ω
Relative permittivity	100HZ	IEC60250	3.1
Relative permittivity	1MHZ	IEC60250	3.1

Injection molding	Values	Unit
Dry Air Drying Temperature	120	°C
Nozzle temperature	260-300	°C
Mold Temperatures	60-110	°C

#### Notes

Note: The above data is a typical value of the laboratory for reference for customer products;  
The actual value is subject to the inspection report of the product received;  
Packaging specifications: 25kg/bag, 15MT with pallets/20'FCL, 27MT with pallets/40'FCL.