



**PUYANG SHENGTONG JUYUAN NEW MATERIAL CO., LTD**

**JY-PC-910UR Technical Data Sheet**

Product information			
Manufacturer	Puyang Shengtong Juyuan New Material Co., Ltd		
Other Certificates	MSDS		
Material identification	PC		
Color	Transparent		
Material shape	Granular		
Processing methods	Injection molding		
Viscosity	Medium Viscosity		
Flammability	HB V-2		
Material Properties	General		
Additive	Release agent, UV Stabilizer		
Physical Properties	Test conditions	Test method	Test data
Density		ISO 1183	1200 kg/m <sup>3</sup>
Molding shrinkage	Parallel		0.60%
	Normal		0.80%
Melt volume-flow rate	300℃, 1.2kg	ISO 1133	9.3cm <sup>3</sup> /10min
Melt mass-flow rate	300℃, 1.2kg	ISO 1133	10.0 g/10min
Water absorption	23℃	ISO 62	0.30%
Mechanical properties	Test conditions	Test method	Test data
Tensile strength	50mm/min	ISO 527-1-2	65.3MPa
Yield stress	50mm/min	ISO 527-1-2	65.3MPa
Tensile modulus	50mm/min	ISO 527-1-2	2300MPa
Strain at break	50mm/min	ISO 527-1-2	120.00%
Flexural strength	2mm/min	ISO 178	95MPa
Flexural modulus	2mm/min	ISO 178	2310MPa
Izod notched impact strength	23℃	ISO 180A	66.3 KJ/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
GWIT	1.5mm	IEC 60692	850℃
GWIT	3.0mm	IEC 60692	900℃
Optical properties	Test conditions	Test method	Test data
Luminous			
1000um	Color Swatches	ISO 13468-2	89.00%
2000um	Color Swatches	ISO 13468-2	89.00%
HAZE 3000um	Color Swatches	ISO 1782	0.80%
Thermal properties	Test conditions	Test method	Test data
Glass transition temperature	10℃/min	ISO 11357-2	145℃
Temperature of deflection under load	0.45MPa	ISO 75-2/B	136℃
Temperature of deflection under load	1.8MPa	ISO 75-2/A	124℃
Vicat softening temperature		ISO 306	143℃
Electrical properties		Test method	Test data
Volume resistivity		IEC60093	1E+14 Ω.M
Surface resistivity		IEC60093	1E+16 Ω
Electrical strength	1.0mm	IEC60243	34KV/mm
Relative permittivity	100HZ	IEC60250	3.1
Relative permittivity	1MHZ	IEC60250	3
Dissipation facto	100HZ	IEC60250	0.0005
Dissipation facto	1MHZ	IEC60250	0.009
Injection molding		Values	Unit
Dry Air Drying Temperature		120	℃
Dry Air Drying Time		4	hr
Moisture Content max		≤0.02	%
Barrel Temperatures - Rear		250-260	℃
Barrel Temperatures - Middle		270-280	℃
Barrel Temperatures - Front		270-280	℃
Nozzle temperature		270-280	℃
Mold Temperatures		80-120	℃
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.