

## Polycarbonate JY-PC-910RB Technical Data

Product Information			
Manufacturer	Puyang Shengtong Juyuan New Material Co., Ltd.		
Other Certificates	MSDS		
Material	PC		
Color	Transparent		
Material Shape	Granular		
Processing Methods	Injection molding		
Viscosity	Medium viscosity		
Flammability	HB V-2		
Purpose	General		
Material properties	Easy release; general purpose		
Additive	Release agent		
Physical Properties	Test Conditions	Test Methods	Indicative Values
Density		ISO 1183	1200 kg/m <sup>3</sup>
Mold shrinkage	parallel		0.60%
	normal		0.80%
Melt volume-flow rate	300 °C , 1.2kg	ISO 1133	9.35 cm <sup>3</sup> /10min
Melt mass-flow rate	300 °C , 1.2kg	ISO 1133	10.0 g/10min
Water absorption	23 °C	ISO 62	0.30%
Mechanical properties	Test Conditions	Test Methods	Indicative Values
Tensile strength	50mm/min	ISO 527-1-2	65.2MPa
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 °C	ISO 180A	66.8 KJ/m <sup>2</sup>
Flammability properties	Test Conditions	Test Methods	Indicative Values
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 °C
GWIT	3.0mm	IEC 60692	900 °C
Optical properties	Test Conditions	Test Methods	Indicative Values
Luminous			
1000um	色板	ISO 13468-2	90.10%
2000um	色板	ISO 13468-2	89.30%

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Thermal properties	Test Conditions	Test Methods	Indicative Values
Glass transition temperature	10°C/min	ISO 11357-2	147°C
Temperature of deflection under load	0.45MPa	ISO 75-2/B	136°C
Temperature of deflection under load	1.8 MPa	ISO 75-2/A	124°C
Vicat softening temperature		ISO 306	144°C
Resistance to heat (ball pressure test)		IEC 60692	135°C
Flash ignition temperature		ASTM D1929	480°C
Self ignition temperature		ASTM D1929	550°C
Electrical properties	Test Conditions	Test Methods	Indicative Values
Volume resistivity		IEC60093	1E14 Ω.M
Surface resistivity		IEC60093	1E16 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
Drying Temperature		120	°C
Drying Time		2~4	hr
Moisture Content max.		≤0.02	%
Barrel Temperatures - Front		250~260	°C
Barrel Temperatures - Middle		270~280	°C
Barrel Temperatures - Rear		270~280	°C
Barrel Temperatures - Nozzle		270~380	°C
Mold Temperatures		80~120	°C
Recommended injection quantity		30~70	%
Hold Pressure		50~70	%

Note: The above data are typical laboratory data for customer reference.

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