



PUYANG SHENGTONG JUYUAN NEW MATERIAL CO., LTD

JY-PC-920UR 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 ³
Molding shrinkage	Parallel		0.65%
	Normal		0.65%
Melt volume-flow rate	300 °C, 1.2kg	ISO 1133	19.0cm ³ /10min
Melt mass-flow rate	300 °C, 1.2kg	ISO 1133	20.0 g/10min
Water absorption	23°C	ISO 62	0.30%

Mechanical properties	Test conditions	Test method	Test data
Tensile strength	50mm/min	ISO 527-1-2	65 MPa
Tensile modulus	50mm/min	ISO 527-1-2	2300MPa
Strain at break	50mm/min	ISO 527-1-2	116.00%
Flexural strength	2mm/min	ISO 178	94MPa
Flexural modulus	2mm/min	ISO 178	2350MPa
Izod notched impact strength	23°C	ISO 180	55.0 KJ/m ²
Izod notched impact strength	23°C	ASTM D256	700.0 J/m

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

Optical properties	Test conditions	Test method	Test data
Luminous			
1000um	Color Swatches	ISO 13468-2	90.50%
2000um	Color Swatches	ISO 13468-2	89.50%

Thermal properties	Test conditions	Test method	Test data
Glass transition temperature	10°C/min	ISO 11357-2	143°C
Temperature of deflection under load	1.8MPa	ISO 75-2/A	124°C
Vicat softening temperature		ISO 306	145°C

Electrical properties		Test method	Test data
Volume resistivity		IEC60093	1E5 Ω.M
Surface resistivity		IEC60093	1E16 Ω
Electrical strength	1.0mm	IEC60243	25KV/mm
Relative permittivity	100HZ	IEC60250	3.1
Relative permittivity	1MHZ	IEC60250	3

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.