



PUYANG SHENGTONG JUYUAN NEW MATERIAL CO., LTD

JY-PC-907UR 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. Extrusion molding
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		0.70%
	Normal		0.80%
Melt volume-flow rate	300°C, 1.2kg	ISO 1133	6.5cm ³ /10min
Melt mass-flow rate	300°C, 1.2kg	ISO 1133	7.0 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	64MPa
Yield stress	50mm/min	ISO 527-1-2	64MPa
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	2350MPa
Izod notched impact strength	23°C	ISO 180A	72.0 KJ/m ²

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	875°C
GWIT	3.0mm	IEC 60692	900°C

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°C/min	ISO 11357-2	145°C

Temperature of deflection under 0.45MPa	ISO 75-2/B	136°C
Temperature of deflection under 1.8MPa	ISO 75-2/A	124°C
Vicat softening temperature	ISO 306	143°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 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	°C
Dry Air Drying Time		4	hr
Moisture Content max		≤0.02	%
Barrel Temperatures - Rear		260-270	°C
Barrel Temperatures - Middle		280-290	°C
Barrel Temperatures - Front		280-290	°C
Nozzle temperature		280-290	°C
Mold Temperatures		80-120	°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.