



PUYANG SHENGTONG JUYUAN NEWMATERIAL CO., LTD

Web: <https://en.stjywin.com>

Polycarbonate JY-PC-910UR Technical Data

Product Information			
Other Certificates	MSDS		
Material	PC		
Color	Transparent		
Material Shape	Granular		
Processing Methods	Injection molding		
Viscosity	Medium viscosity		
Material Properties	Anti-UV Grade		
Flammability	HB V-2		
Purpose	General		
Material properties	UV stabilized; easy release; general purpose		
Additive	Release agent, Anti-UV agent		
Physical Properties	Test Conditions	Test Methods	Indicative Values
Density		ISO 1183	1200 kg/m ³
Mold shrinkage	parallel		0.60%
	normal		0.80%
Melt volume-flow rate	300℃, 1.2kg	ISO 1133	9.30 cm ³ /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 Methods	Indicative Values
Tensile strength	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	70.3 KJ/m ²
Flammability properties	Test Conditions	Test Methods	Indicative Values
Burning behavior	panchromatic 0.75r	UL 94	V-2
Burning behavior	panchromatic 1.5-2.	UL 94	V-2
Burning behavior	panchromatic 2.5mr	UL 94	HB
Burning behavior	panchromatic 3.0mr	UL 94	HB
Burning behavior	panchromatic 6.0mr	UL 94	HB
GWIT	1.5mm	IEC 60692	850℃
GWIT	3.0mm	IEC 60692	900℃

Optical properties	Test Conditions	Test Methods	Indicative Values
Luminous			
1000um	色板	ISO 13468-2	89.00%
2000um	色板	ISO 13468-2	89.00%
Thermal properties	Test Conditions	Test Methods	Indicative Values
Glass transition temperature	10℃/min	ISO 11357-2	145℃
Temperature of deflection under load	0.45MPa unanneale	ISO 75-2/B	136℃
	1.8 MPa unanneale	ISO 75-2/A	124℃
Vicat softening temperature		ISO 306	143℃
Electrical properties	Test Conditions	Test Methods	Indicative Values
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
Drying Temperature		120	℃
Drying Time		2~4	hr
Moisture Content max.		≤0.02	%
Barrel Temperatures - Rear		250~260	℃
Barrel Temperatures - Middle		270~280	℃
Barrel Temperatures - Front		270~280	℃
Barrel Temperatures - Nozzle		270~280	℃
Mold Temperatures		80~120	℃
Shot-to-Cylinder Size		30~70	%
Hold Pressure		50~70	%