



QINGDAO GON PLASTICS CO.,LTD

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Polycarbonate JY-PC-970 Technical Data

Product Information

Manufacturer	Puyang Shengtong Juyuan New Material Co., Ltd.
Other Certificates	MSDS
Material	PC
Color	Transparent
Material Shape	Granular
Viscosity	Low viscosity
Flammability	HB V-2
Basic date	UL.UL-746C F1
Material properties	Without release agent;

Physical Properties	Test Conditions	Test Methods	Indicative Values
Density		ISO 1183	1195 kg/m ³
Mold shrinkage	parallel	ISO 294	0.60%
Mold shrinkage	normal	ISO 294	0.80%
Melt volume-flow rate	300℃, 1.2kg	ISO 1133	65.0 cm ³ /10min
Melt mass-flow rate	300℃, 1.2kg	ISO 1133	70.0 g/10min
Water absorption	23℃	ISO 62	0.30%

Mechanical properties	Test Conditions	Test Methods	Indicative Values
Stress at break	50mm/min	ISO 527-1-2	66.0MPa
Yield stress	50mm/min	ISO 527-1-2	66.0MPa
Tensile modulus	50mm/min	ISO 527-1-2	2000MPa
Strain at break	50mm/min	ISO 527-1-2	91.00%
Flexural strength	2mm/min	ISO 178	110MPa
Flexural modulus	2mm/min	ISO 178	2000MPa
Izod notched impact strength	23℃	ISO 180A	15.0 KJ/m ²

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

Optical properties	Test Conditions	Test Methods	Indicative Values
Luminous			
1000um		ISO 13468-2	90.50%
2000um		ISO 13468-2	89.50%

Thermal properties	Test Conditions	Test Methods	Indicative Values
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Glass transition temperature	10°C/min	ISO 11357-2	135°C
Temperature of deflection under load	1.8 MPa	ISO 75-2/A	118°C
Vicat softening temperature		ISO 306	130°C

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 factor	100HZ	IEC60250	0.0005
Dissipation factor	1MHZ	IEC60250	0.009

Notes:

Note: The above data is a typical value of the laboratory for reference for customer products;
 Packaging specifications: 25kg/bag, 1500kg/pallet, 25.5 MT with pallets/40FCL