



QINGDAO GON PLASTICSCO,.LTD

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°C, 1.2kg	ISO 1133	9.30 cm ³ /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	65.3MPa
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°C	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°C
GWIT	3.0mm	IEC 60692	900°C

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°C/min	ISO 11357-2	145°C
Temperature of deflection under load	0.45MPa unanneale	ISO 75-2/B	136°C
	1.8 MPa unanneale	ISO 75-2/A	124°C
Vicat softening temperature		ISO 306	143°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 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 - Rear		250~260	°C
Barrel Temperatures - Middle		270~280	°C
Barrel Temperatures - Front		270~280	°C
Barrel Temperatures - Nozzle		270~280	°C
Mold Temperatures		80~120	°C
Shot-to-Cylinder Size		30~70	%
Hold Pressure		50~70	%

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