



GON
PLASTICS

QINGDAO GON PLASTICS CO.,LTD

Polycarbonate PC-903RB Technical Data

Product Information			
Manufacturer	Puyang Shengtong Juyuan New Material Co., Ltd.		
Other Certificates	MSDS		
Material	PC		
Color	Transparent		
Material Shape	Granular		
Processing Methods	Injection, Extrusion, Blow molding		
Viscosity	High viscosity		
Flammability	HB V-2		
Purpose	General		
Material properties	Easy release; General purpose		
Additive	Release agent		
Physical Properties	Test Conditions	Test Methods	Indicative Values
Density		ISO 1183	1200 kg/m ³
Mold shrinkage	parallel	ISO 294	0.70%
Mold shrinkage	normal	ISO 294	0.80%
Melt volume-flow rate	300℃, 1.2kg	ISO 1133	2.8 cm ³ /10min
Melt mass-flow rate	300℃, 1.2kg	ISO 1133	3.0 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	64MPa
Tensile modulus	50mm/min	ISO 527-1-2	2300MPa
Strain at break	50mm/min	ISO 527-1-2	115.00%
Flexural strength	2mm/min	ISO 178	92MPa
Flexural modulus	2mm/min	ISO 178	2350MPa
Izod notched impact strength	23℃	ISO 180A	74.0 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
GWIT	1.5mm	IEC 60692	875℃
GWIT	3.0mm	IEC 60692	900℃
Optical properties	Test Conditions	Test Methods	Indicative Values

Luminous

1000um

ISO 13468-2 89.00%

2000um

ISO 13468-2 89.00%

HAZE 3000um

ISO 147872 0.8%%

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	ISO 75-2/B	136°C
Temperature of deflection under load	1.8 MPa	ISO 75-2/A	127°C
Vicat softening temperature		ISO 306	145°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 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

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
Barrel Temperatures - Nozzle	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;
 Packaging specifications: 25kg/bag, 1500kg/pallet, 25.5 MT with pallets/40FCL

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