



PC10701JBK

Product description:

The product designated as injection grade of high gloss PC with piano black coloring. Apart from superior mechanical properties because of PC based resin, very high thermal stability during injection process is presented in this product.

Typical application: Injection molding

Typical properties:

Properties	Unit	Method	Value
<u>Flow property</u>			
Melt flow rate (300°C, 1.2 kg)	g/10 min	ASTM D1238	15
<u>Physical and thermal properties</u>			
Density	g/cm ³	ASTM D792	1.19
Heat distortion temperature(HDT) @1.8 MPA	°C	ASTM D648	120
Linear mold shrinkage	%	Internal Method	
- Across Flow			0.5 - 0.7
- Flow			0.5 - 0.7
<u>Mechanical properties</u>			
Tensile modulus	MPa	ASTM D638	1690
Tensile strength	MPa	ASTM D638	64
Elongation at break	%	ASTM D638	6.6
Flexural modulus	GPa	ASTM D790	2340
Flexural strength	MPa	ASTM D790	91.9
Notched Izod impact strength	J/cm	ASTM D256	0.921 (P)

Note: Typical properties reported here are typical values of the product, not be construed as product specifications. PTT Global Chemical makes no representations as to the accuracy or completeness of the information contained herein.



Processing guideline

Processing guideline	Typical value	Unit
<u>Drying condition</u>		
Drying temperature	120	°C
Drying time	4~6	h
Maximum moisture content after drying	0.02	%
<u>Injection molding</u>		
Melt temperature	290~310	°C
Nozzle temperature	280~300	°C
Barrel temperatures		
- Rear zone	270~290	°C
- Middle zone	280~300	°C
- Front zone	290~310	°C
Hopper temperature	70~90	°C
Mold temperature	70~100	°C
Injection pressure	50~150	MPa
Screw rotating speed	10~100	rpm

Delivery form: The products are supplied as cylindrically cut granules in 25 kg / bag