

## Technical Datasheet PC-110

### 1) Product Description:

PC-110 is a medium viscosity Polycarbonate resin polymerized using the double hydroxy compounds of BPA (bisphenol-A) and the diphenylcarbonates of carbonate compounds with the transesterification (melting) method. Absolutely no phosgene and chlorinated solvents such as dichloromethane were used during the manufacturing process. PC-110 is FDA and UL certified.

PC-110 has excellent transparency, high heat resistance, ultra high impact resistance, dimensional stability, etc., making it suitable for a wide range of applications.

### 2) Applications:

Vehicle indicator light casings, mouse, chocolate container boxes, high heel shoes

### 3) Typical data:

Property	Test method	Test condition	Unit	Value*
Melt Flow Index	ASTM D1238	300 °C, 1.2 Kg	g/10 min	10.0
Mass Density	ASTM D792	23 °C	-	1.2
Hardness	ASTM D785	-	M Scale	77
Tensile Strength (Yield)	ASTM D638	6 mm/min	Kg/cm <sup>2</sup>	630
			lb/in <sup>2</sup>	8935
Tensile Elongation	ASTM D638	6 mm/min	%	110
Flexural Strength	ASTM D790	1.3 mm/min	Kg/cm <sup>2</sup>	920
			lb/in <sup>2</sup>	13030
Flexural Modulus	ASTM D790	1.3 mm/min	10 <sup>4</sup> Kg/cm <sup>2</sup>	2.4
			10 <sup>5</sup> lb/in <sup>2</sup>	3.4
Izod Impact Strength	ASTM D256	3.2 mm, 23°C	Kg-cm/cm	87
			ft-lb/in	15.9
Vicat Softening Temp.	ASTM D1525	1 Kg, 50 °C/hr	°C	150
Heat Distortion Temp.	ASTM D648	132°C×8 hours Loading 4.6 kg/cm <sup>2</sup>	°C	146
UL Flammability	UL 94	-	-	1.5mm v-2

\* Typical values not to be construed as specifications.