

PC 片材有哪些优越性能

What are the superior properties of PC sheets?

关于 PC 片材的优越性能，主要是：

Regarding the superior properties of PC sheets, the main ones are:

一、具有良好的耐热性达 125 度和耐低温性零下 45 度，在较宽的温度范围内具有稳定的力学性能，尺寸稳定性，电性能和阻燃性，可在-60~120℃下长期使用；无明显熔点，在 220-230℃呈熔融状态；由于分子链刚性大，树脂熔体粘度大；

1. It has good heat resistance up to 125 degrees and low temperature resistance of minus 45 degrees. It has stable mechanical properties, dimensional stability, electrical properties and flame retardancy in a wide temperature range, and can be used at -60~120℃ It has no obvious melting point and is in a molten state at 220-230℃; due to the high rigidity of the molecular chain, the resin melt viscosity is high;

二、对光稳定，但不耐紫外光，耐候性好；耐油、耐酸、不耐强碱、氧化性酸及胺、酮类，溶于氯化烃类和芳香族溶剂，长期在水中易引起水解和开裂，缺点是因抗疲劳强度差，容易产生应力开裂，抗溶剂性差，耐磨性欠佳。

2. Stable to light, but not resistant to ultraviolet light, good weather resistance; resistant to oil, acid, strong alkali, oxidizing acids, amines, and ketones. It is soluble in chlorinated hydrocarbons and aromatic solvents, and can easily cause damage when exposed to water for a long time. Hydrolysis and cracking, the disadvantages are that it is prone to stress cracking due to poor fatigue resistance, poor solvent resistance, and poor wear resistance.

三、耐冲击性优异，拉伸强度、弯曲强度、压缩强度高；蠕变性小，尺寸稳定。

3. Excellent impact resistance, high tensile strength, bending strength and compressive strength; small creep property and stable dimensions.

四、吸水率小，收缩率小，尺寸精度高，尺寸稳定性好，薄膜透气性小；属自熄性材料；

4. Low water absorption, small shrinkage, high dimensional accuracy, good dimensional stability, low film permeability; it is a self-extinguishing material;

五、具有优良的物理机械性能。

5. It has excellent physical and mechanical properties.