

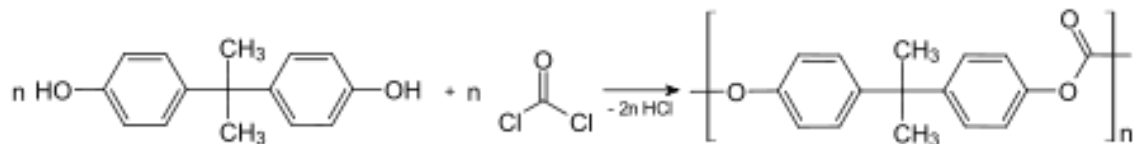
PC Foil Data sheet

Model Name: (PC Foil - Polycarbonate Foil)

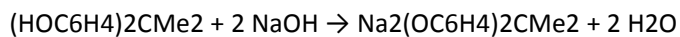
1.Introductions

PC foil is made by Polycarbonates (PC) , Polycarbonates (PC) are a group of thermoplastic polymers containing carbonate groups in their chemical structures. Polycarbonates used in engineering are strong, tough materials, and some grades are optically transparent. They are easily worked, molded, and thermoformed. Because of these properties, polycarbonates find many applications.

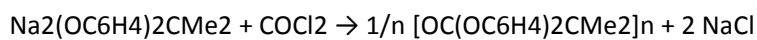
2.Chemical Structure



The first step of the synthesis involves treatment of bisphenol A with sodium hydroxide, which deprotonates the hydroxyl groups of the bisphenol A.[5]



The diphenoxide ($\text{Na}_2(\text{OC}_6\text{H}_4)_2\text{CMe}_2$) reacts with phosgene to give a chloroformate, which subsequently is attacked by another phenoxide. The net reaction from the diphenoxide is:



3.Features& Structures

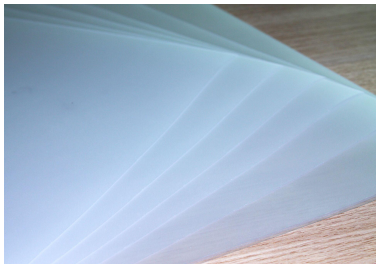
Item	Date	Item	Date
Bending strength(MPa)	100~120	Elongation (%)	60~130
Brinell strength	150~160	Flexural modulus(MPa)	2000~2500
Molding Shrinkage(%)	0.5-0.8	Molding temperature(°C)	230-320°C
Drying condition(°C)	110-120°C		

Fatigue resistance/MPa	10.5	Izod Notch(ed) impact strength	60~75
	7.5	Notch(ed) impact strength in Low Temp	640~910

4.Raw materials: Polycarbonate



5.Finished products



6.Application of gum:3M Glue

7.Dimension

Length : 100mm to 500mm

Width: 100mm to 500mm

Thickness: 0.5mm