



## PC-300™/ 350™

**PC-300™/350™ Coated Products** offer the same static dissipative characteristics of the AC-300/350 family with the addition of increased impact strength and flammability resistance.

**PC-300™** is non-formable abrasion resistant coated polycarbonate product.  
**PC-350™** is formable with less resistance to abrasion. Both products will find applications ranging from clean room glazing to packaging.

PORT PLASTICS offers the following:

- Thickness :** - .010" - 1/2" (standard)  
**Sheet Size:** - 24" x 48" for thin films  
 - 48" x 96" for thick sheet

(Note: other substrates available: PVC & Polyester Film)

PC 300™ & PC 350™ Polycarbonate Typical Physical Properties			
Property	Test Method	Units	PC-300 Polycarbonate PC-350 Polycarbonate
<b>Physical</b> Pencil Hardness	ASTM D-3363	Hardness Scale	B-PC-300 2B-PC-350
<b>Mechanical</b> Tensile Strength Flexural Modulus	ASTM D-638 ASTM D-790	psi psi	9,500 345,000
<b>Thermal</b> Max. Continuous Service Temp. Coefficient of Thermal Expansion	- ASTM D-696	°F in/in/°F	225 3.8 X 10 <sup>-5</sup>
<b>Flammability</b> UL Rating	UL Classification	inch	94V2 under 1/4" 94VO 1/4" & over
<b>Electrical</b> Surface Resistivity Electrostatic Decay	ASTM D-257 FTS 101C Method 4046.1*	ohms/sq sec	10 <sup>6</sup> - 10 <sup>8</sup> less than 0.05

Typical Values

Ice Resistance 9-11  
 Abrasion Resistance 9-11



## StatiCon® Glazing PC-300™ Polycarbonate

Typical Physical Properties (Typical but not guaranteed values for 0.25 inch material)

Property	Test Method	Units	PC-300
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	--	1.20
Pencil Hardness	ASTM D-3363	Hardness Scale	B
<b>MECHANICAL</b>			
Tensile Strength--Ultimate	ASTM D-638	psi	9,500
Tensile Strength--Elongation	ASTM D-638	%	100
Tensile Modulus	ASTM D-638	psi	340,000
Flexural Strength	ASTM D-790	psi	13,500
Flexural Modulus	ASTM D-790	psi	340,000
Compressive Strength	ASTM D-695	psi	12,500
Izod Impact Strength (milled notch)	ASTM D-256	ft-lb/inch of notch	16
<b>THERMAL</b>			
Deflection Temperature (264 psi load)	ASTM D-648	°F	270
Vicat Softening Point	ASTM D-1525	°F	310
Maximum Continuous Service Temp.	--	°F	180
Coefficient of Thermal Expansion	ASTM D-696	in/in/°F	3.8 x 10 <sup>-5</sup>
Coefficient of Thermal Conductivity	Cenco-Fitch	BTU•in/hr•ft <sup>2</sup> •°F	1.35
<b>FLAMMABILITY</b>			
Horizontal Burn (Flame Spread)	ASTM D-635	inch/min	Less than 1.0
UL 94 Rating	UL 94	UL Classification	v-2 <0.236 in
<b>OPTICAL</b>			
3mm Transp. Clear Transmittance--Total	ASTM D-1003	%	74
Haze	ASTM D-1003	%	Less than 3.0
<b>ELECTRICAL</b>			
Surface Resistivity	ASTM D-257	ohms/sq	10 <sup>6</sup> -10 <sup>8</sup>
Surface Resistance	EOS/ESD S11.11	ohms	10 <sup>5</sup> -10 <sup>7</sup>
Electrostatic Decay	FTS101C Method4046.1*	sec	Less than 0.05

\* Federal Test Standard 101C, Method 4046.1 as described in EIA-541, Appendix F, Measurement of Electrostatic Decay Properties of Dissipative Planar Materials

### Chemical Resistance ASTM D-543

Samples immersed in the specified chemicals for 24 hours at room temperature and visually examined

Chemical	Surface Attack	Visual Evaluation
Deionized Water	None	Clear
30% Sodium Hydroxide	None	Cloudy
30% Sulfuric Acid	None	Clear
30% Nitric Acid	Some pitting	Clear
48% Hydrofluoric Acid	Pitted Coating	Clear
Methanol	Slight pitting	Clear
Ethanol	None	Clear
Isopropyl Alcohol	None	Clear
Acetone	Severe pitting	Opaque
Methylene Chloride	Sample dissolved	Sample dissolved