

# LONGHUA POLYCARBONATE FILM TECHNICAL DATA

			GRAPHIC ARTS GRADES		TECHNICAL GRADES		
PROPERTY	TEST METHOD	UNITS	PC-801 PC-811	PC-813, 813F PC-815 PC-832, 832F PC-835, 835F PC-836	PC-770-60B PC-770-63B PC-770-65B PC-860-60B PC-860-63B PC-860-65B	PC-770F PC-870	PC-770-83F PC-870-83(B)
<b>PHYSICAL</b>							
Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1.2	1.2	1.3	1.32	1.32
Light Transmission	ASTM D1003	%	88 - 92	88 - 92	> 85	-	-
Haze	ASTM D1003	%	< 1	-	-	-	-
Water Absorption 24 Hrs	ASTM D570	%	0.35	0.35	0.35	0.35	0.35
Gauge Variation		%	< 250μ ± 10% ≥ 250μ ± 5%		< 250μ ± 10% ≥ 250μ ± 5%		± 10%
<b>MECHANICAL</b>							
Tensile Strength	ASTM D882 ISO R 1184-1987	psi MPa	8,800 60	8,500 55	7,300 > 50	7,300 50	7,300 > 50
Elongation	ASTM D882	%	> 90	> 90	> 25	> 15	> 20
Impact Strength @ 750μ	Gardner	In-lbs	120	120	60	60	60
Tear Strength Propagation	ASTM D1922	g/mil	> 30	> 30	> 30	> 30	> 30
<b>THERMAL</b>							
Vicat Softening Temp	ASTM D1525	°C	135	135	135	135	135
Strain Relief @ 135°C	ASTM D1204	%	< 0.2	< 0.2	< 1.0	< 1.0	< 1.0
<b>ELECTRICAL</b>							
Dielectric Strength @ 250μ	ASTM D149	V/mil	1,700	1,700	1,300	1,300	1,600
Volume Resistivity @ 25°C, 50% RH	ASTM D257	Ω-cm	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>	10 <sup>16</sup>
Surface Resistivity @ 25°C, 50% RH	ASTM D257	Ω/square	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>

## FLAMMABILITY

Underwriters Laboratory - UL94 - File Number: E254551

### GRAPHIC ARTS GRADES

PC-801, PC-811, PC-813, PC-813F, PC-815,  
PC-832, PC-832F, PC-835, PC-835F, PC-836

@ ≥ 250μ  
@ < 250μ

V-2  
VTM-2

### TECHNICAL GRADES

PC-770-60B, PC-770-63B, PC-770-65B

@ 130 - 1,000μ

V-0

PC-860-60B, PC-860-63B, PC-860-65B

@ 180 - 1,000μ

V-0

PC-770F

@ 250 - 800μ

V-0

PC-870

@ 100 - 1,000μ

V-0

PC-770-83F

@ 70 - 200μ

V-0

PC-870-83(B)

@ 50 - 200μ

VTM-0

Oxygen Index  
@ 250μ  
(ASTM D2863)  
32%