

**TEIJIN**

*Human Chemistry, Human Solutions*

**Panlite<sup>®</sup> sheet**

# Weather Resistant Grade

# Weather Resistant Grade Features

## Grades:

PC-1111, PC-1411, PC-1611, PC-1711

## Features:

- Grade with excellent weather resistance with UV absorber added
- Lineup includes gray, brown, green, and other color sheets
- Suitable for construction machine roofs, motorcycle windshields, etc.





# Weather Resistant Grade Thickness Lineup

	Thickness			
	PC-1111 (Clear)	PC-1411 (Transparent)	PC-1611 (Brown)	PC-1711 (Grey)
2mm	●	●		
3mm	●	●	●	●
4mm	●	●	●	●
5mm	●	●	●	●
6mm	●		●	
8mm	●	●	●	●
10mm	●	●		



\*Please contact us for sizes

# Weather Resistant Grade Physical Properties

Property	Unit	Testing method	Measurement conditions	Measured value
Density	kg/m <sup>3</sup>	ISO 1183	—	1200
Water absorption	%	ISO 62	23°C in water for 24h	0.2
Light transmittance	%	ASTM D1003	3mm thick	88
Refractive index	—	ASTM D542	—	1.585
Tensile modulus	MPa	ISO 527-1 and ISO 527-2	1mm/min	2400
Tensile yield stress	MPa		50mm/min	61
Tensile yield distortion	%		50mm/min	6
Tensile fracture designation distortion	%		50mm/min	>50
Flexural modulus	MPa	ISO 178	2mm/min	2300
Flexural strength	MPa		2mm/min	91
Charpy impact strength	kJ/m <sup>2</sup>	ISO 179	Notched	76
Pencil hardness	—	JIS K 5600	—	2B
Heat deflection temperature	°C	ISO 75-1 and ISO 75-2	1.80MPa	129
			0.45MPa	142
Vicat softening temperature	°C	ISO 306	50°C/h 50N	149
Coefficient of linear expansion	×10 <sup>-4</sup> /°C	ISO 11359-2	—	0.7
Specific inductive capacity	—	IEC 60250	100Hz	3.1
			1MHz	3
Dielectric loss tangent	—	IEC 60250	100Hz	10
			1MHz	90
Volume resistivity	Ω·m	IEC 60093	—	>1×10 <sup>13</sup>
Surface resistivity	Ω	IEC 60093	—	>1×10 <sup>15</sup>
Withstand voltage	MV/m	IEC 60243-1	Short time test	30
Tracking resistance	—	IEC 60112	—	250
Temperature index	°C	UL 746B	Electrical 1.47mm thick	125
			Impact 1.47mm thick	115
			Non-impact 1.47mm thick	125

Note:  
The values in the above table are measured, not guaranteed values