

PurePolycarbonate® Abrasion Resistant Grades

HighLine Polycarbonate's range of Abrasion Resistant Sheet grades is made exclusively from Teijin's Panlite® Polycarbonate Resin. The exceptional optical properties of the resin allow the production of Polycarbonate sheet with unmatched consistency, quality and performance.

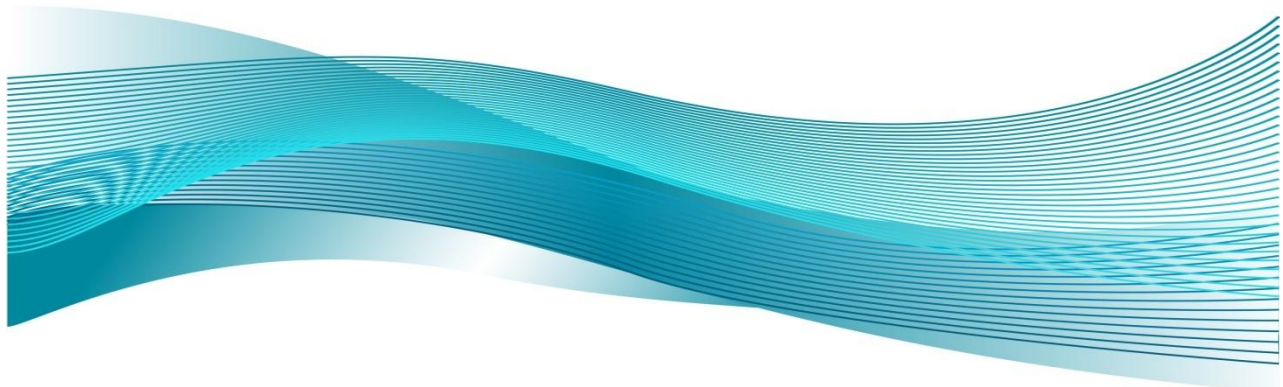


Our Abrasion Resistant grades include a Standard Abrasion Resistant Grade and a Formable Abrasion Resistant Grade.

Our Abrasion Resistant sheet has been used in some of the most demanding applications including the fleet of Japanese Shinkansen trains.

Product Data Sheet

Property	Unit	Test Method	Value		
			GP Sheet	Abrasion	Resistant
				Formable	Standard
Abrasion Resistance					
Taber Abrasion Test CS-10F 500g, 100 rotations	%	ASTM.D1044	35	2	1
Taber Abrasion Test CS-10F 500g, 500 rotations	%	ASTM.D1044	-	10	4
Falling Sand Test #80 Carbon Random 800g	%	ASTM.D6735	50	3	1
Physical					
Light Transmission, Clear 0.080"	%	-	88	90	90



PurePolycarbonate® Abrasion Resistant Grades

Bending Properties of Formable Abrasion Resistant Grade

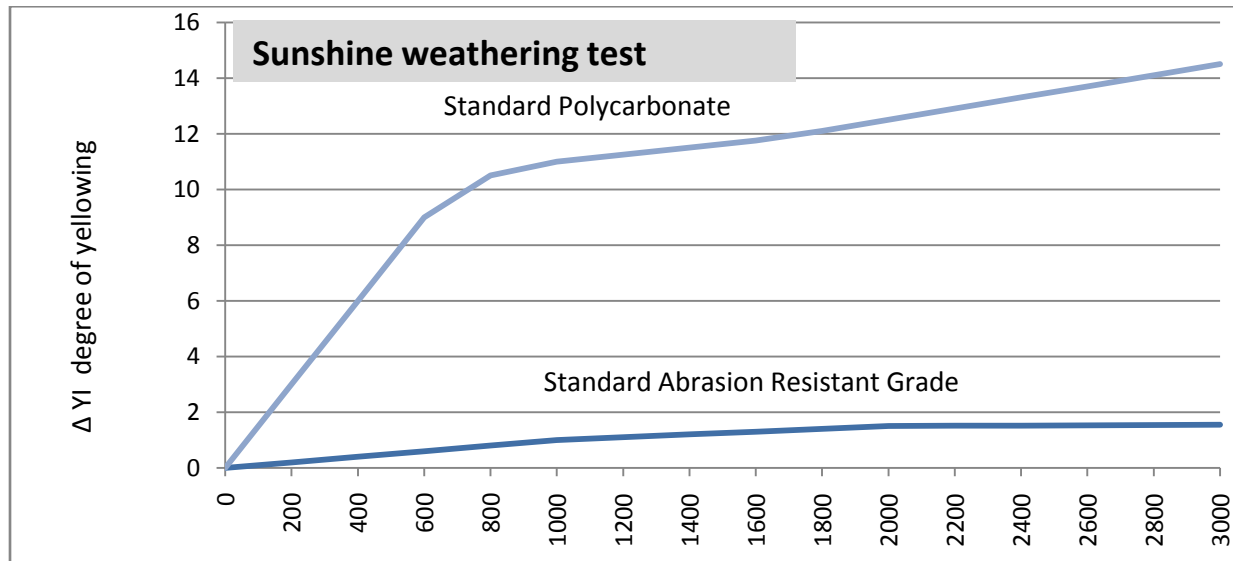
When heated to a temperature of 340°F for 10 minutes, 0.078” sheet can be bent to a radius of 0.80”.

Chemical Resistance

Chemical Resistance	Unit	Test Method	Value		
			GP Sheet	Abrasion	Resistant
				Formable	Standard
Ethyl Acetate	min	Note 1	0.5	180	120
Methyl Ethyl Ketone	min	Note 1	0.5	180	120
Toluene	min	Note 1	1	180	120
Ethanol	hr	Note 1	>240	>240	170
Gasoline	hr	Note 1	>240	240	>240
5% - NaOH	hr	Note 1		240	80
5% - H ₂ SO ₄	hr	Note 1	>240	240	>240

Note 1: Period of time until any change occurs. Test piece soaked in solvent at a temperature of 77°F.

Weather Resistance of Standard Abrasion Resistant Grade



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Numerical values contained herein are representative values based on the standard testing method and do not guarantee the product's performance for any particular application. HighLine Polycarbonate, LLC. will not be responsible for the use of this information relative to actual applications. Users must make their own determination of the suitability of the material for their specific application. For details regarding Health and Safety considerations see the Material Safety Data Sheets (MSDS) before using the product. PurePolycarbonate® is a registered trademark of HighLine Polycarbonate, LLC.
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