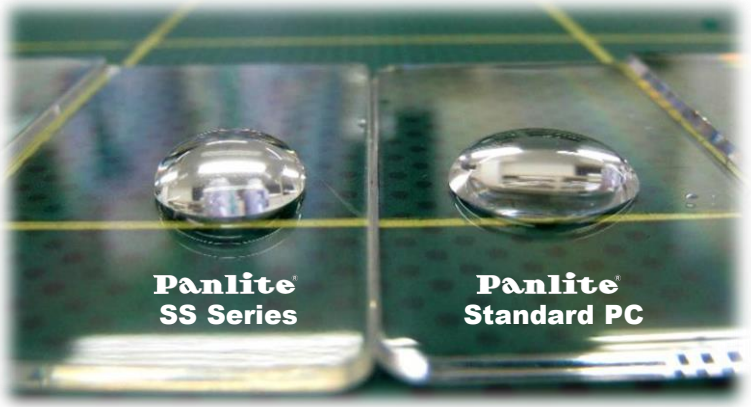
Low temp. Impact Resistance PC

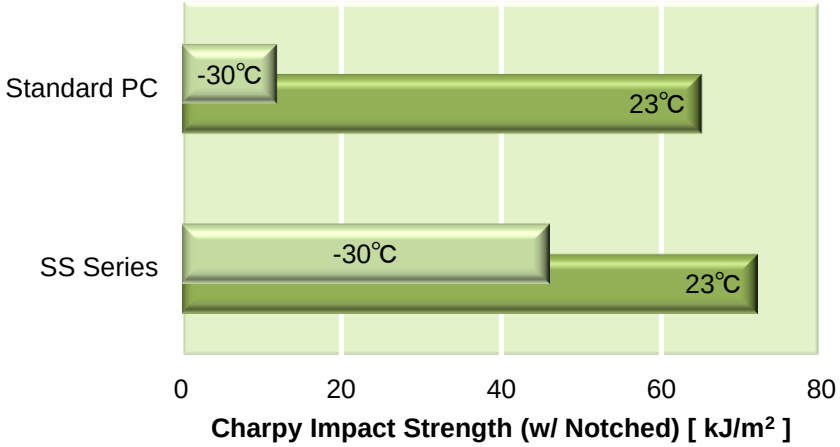
Introduction

- Panlite SS Series, newly developed polycarbonate has improved lower temperature impact resistance without sacrificing its transparency by reviewing the molecular structure of polycarbonate.
- Wide range of applications, which needs to be working under extreme lower temperature environment and transparency is required, are expected.
- In addition, SS Series have unique features that standard polycarbonate doesn't have, such as hydrophobicity and chemical resistance (Alkaline, Detergent).

Features

- Superior impact resistance to standard polycarbonate
- Especially, lower temperature impact resistance is improved.
- Keep transparency, wide range of color variation is possible.
- Chemical resistance to specific chemicals(Alkaline, Detergent)
- Hydrophobicity





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Standard Grade portfolio

Type	Grade	Features
Standard	SS-2430	Standard
	SS-2525	High Impact Strength
Weather Resistance	SS-2525Z	High Impact Strength
High Transparency	SS-1230	High Transparency

Material Specification

Item	Unit	Standard	Conditions	Panlite SS-2430	Panlite SS-2525	Standard PC Panlite L-1225L
Density	kg/m^3	ISO1183	–	1,200	1,200	1,200
Total Light Transmittance	%	ASTM D 1003	2mmt	89	88	90
Haze	%		2mmt	0.6	1.4	0.2
Tensile Yield Stress	MPa	ISO527-1 ISO527-2	50mm/min	58	59	62
Tensile Fracture Stress	MPa			63	70	73
Tensile Fracture designation distortion	%			>50	>50	>50
Flexural Strength	MPa	ISO178	2mm/min	89	91	92
Flexural Modulus				2,200	2,220	2,320
Charpy Impact Strength (Notched)	kJ/m^2	ISO179	23℃	72	79	65
			-30℃	46	54	12
Load Deflection Temperature	℃	ISO75-1 ISO75-2	1.80MPa	120	123	125
Mold Shrinkage	%	In-House (4mmt)	Melt Direction	0.5~0.7	0.5~0.7	0.5~0.7
			Traverse Direction	0.5~0.7	0.5~0.7	0.5~0.7

* Values on the table above are representative, not guaranteed.

※ Wider range of grade portfolio is available. In case of require further detail information, please use “Inquiry format” on this web-site.