



AUTOMOTIVE QUALITY

Automotive glass manufacturing has been evolving hand-in-hand with automobile design. More recently, the curved shape has grown into popularity, becoming one of the most commonly in demand shapes for many producers and processors.

Sphinx Glass is committed to meeting the changing demands of car manufacturers, utilizing the most advanced manufacturing technologies to ensure the optimum quality of its products and services.

Sphinx Automotive Quality comes in varying sizes and thicknesses, beginning from 2.1 mm. Yet its defining characteristic is its clear and undisorted visibility, whether in the clear float or green ranges, which provides high transmittance and reduces solar heat gain, making the different varieties of Sphinx Glass products ideal for windscreens, sidelights and backlights.

Glass Configuration	UV		Visible Light				Solar Energy					U-Value W/M2K
	Transmittance %	Transmittance %	Reflection, Ext. %	Reflection, Int. %	Color Render Index Ra (D65) %	Transmittance %	Reflection %	Absorption %	Solar Factor EN410	SHGC	SC	
2.1 MM	69	90	9	9	99	87	10	3	0.88	0.87	1.01	5.9
2.2 MM	69	90	9	9	99	87	10	3	0.88	0.87	1.01	5.9
2.5 MM	68	90	9	9	99	87	10	3	0.88	0.87	1.01	5.9
2.7 MM	67	90	9	9	99	86	10	4	0.88	0.87	1.00	5.9
3 MM	66	90	9	9	99	85	10	5	0.87	0.86	1.00	5.8
4 MM	62	90	9	9	99	84	9	7	0.86	0.85	0.99	5.8
5 MM	59	89	9	9	98	82	9	9	0.85	0.84	0.98	5.8

- Performance data is based on representative samples of factory production. Actual values may vary slightly due to variations in the production process.
- Tabulated data is based on NRFC methodology using the LBL windows 5.2 software and where noted European methodology using WinDat WIS version 3.0.1 software.
- SF = Solar Factor (EN410) also known as g-value.
- Color Rendering Index Ra (D65) = the ability of transmitted daylight to portray a variety of colors compared to those seen under daylight without the glazing.
- "cd65" refers to an average of eight color samples at 6500 K color temperature. In illumination, general color rendering indices Ra.
- Above 90 are very good and Ra between 80 and 90 are good.