



Material	Application	Thickness (mm)	Weight (kg / m ²)	Area of glass in an average car for comparison Subaru Forester	Weight (kg)	Visible Light transmission	Tensile Strength (MPa)	Impact Strength Charpy impact value (kJ/m ²)	Flexural Strength (σ)
Modern Road Car									
Original Equipment Laminated glass.	Front Windscreen	6.76	17.0	1.275 m ²	21.675	86%			35 ~ 55
Toughened glass.	Side or Rear Window	3	7.5	4 x Doors glass 2 x Rear ¼ 1 x Rear window Total: 3.12 m ²	23.4	90%			185~210
				Total	45 kg				
Historic Road Car									
Original Equipment Toughened glass	Front Windscreen	4	10.0	1.275 m ²	12.75	89%	100~120		185~210
Toughened glass	Side or Rear Window	4	10.0	4 x Doors glass 2 x Rear ¼ 1 x Rear window Total: 3.12 m ²	31.2	90%			185~210
				Total	44 kg				
Competition Plastic Glazing Materials									
Historic Acrylic (not very safe but they are out there)		4	4.8			92%			115
Acrylic		3	3.6			92%			115
High Impact Acrylic		3	3.6			92%			115
Polycarbonate	Some drag racing Side or Rear Window	2	2.4			87%			90
Polycarbonate	Front Windscreen	4	4.8	Front 1.275 m ²	6.12	85%	65	35 kJ/m ²	90
Polycarbonate	Side or Rear Window	3	3.6	4 x Doors glass 2 x Rear ¼ 1 x Rear window Total: 3.12 m ²	11.2	86%			90
				Total	17 kg				