



Polycarbonate vs. Glass

SHIELDS® Windshields

Tired of Breaking Glass?

Using formed polycarbonate (Lexan®) gives you multiple advantages over glass:

- 1/2 the Weight
- 260x++ Stronger
- Noise Reduction
- Light Transmittance
- Thermal Properties
- Ability to Fit Custom Cabs/Enclosures

WEIGHT		LBS./FT. ²				
SHEET THICKNESS:	.118"	.177"	.236"	.374"	.472"	
SHIELDS®	.73	1.10	1.46	2.34	3.12	
GLASS	1.69	2.40	3.20	4.80	6.40	
% ADVANTAGE OVER GLASS	54%	54%	54%	51%	51%	

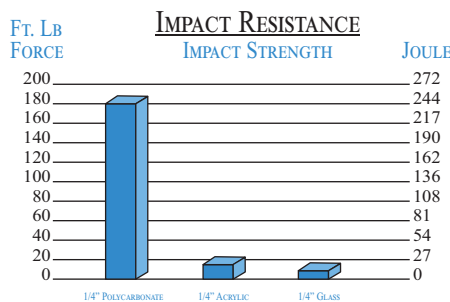
SOUND TRANSMISSION		STC RATING				
SHEET THICKNESS:	.118"	.177"	.236"	.374"	.472"	
SHIELDS®	25	29	31	34	34	
GLASS	23	-	27	-	32	
% ADVANTAGE OVER GLASS	8%	-	13%	-	6%	

SUMMER HEAT GAIN		BTU/HR.-SQ-°F				
SHEET THICKNESS:	.118"	.177"	.236"	.374"	.472"	
SHIELDS®	.97	.93	.90	.83	.77	
GLASS	1.04	1.04	1.04	1.03	1.03	
% ADVANTAGE OVER GLASS	7%	11%	14%	19%	25%	

LIGHT TRANSMITTANCE		CLEAR				
SHEET THICKNESS:	.118"	.177"	.236"	.374"	.472"	
SHIELDS®	.97	.93	.90	.83	.77	

WINTER HEAT LOSS		BTU/HR.-SQ-°F				
SHEET THICKNESS:	.118"	.177"	.236"	.374"	.472"	
SHIELDS®	1.05	1.01	.96	.88	.82	
GLASS	1.16	1.15	1.14	1.11	1.09	
% ADVANTAGE OVER GLASS	10%	12%	16%	21%	25%	

IMPACT STRENGTH		ASTM D3763				
SHEET THICKNESS:	.118"	.177"	.236"	.374"	.472"	
SHIELDS®	55 Ft-Lbs	80 Ft-Lbs	110 Ft-Lbs	160 Ft-Lbs	220 Ft-Lbs	



TEST:
FALLING DART -
5 LB STEEL DART
1" DIAMETER TIP



www.SHIELDSWINDSHIELDS.COM
INFO@SHIELDSWINDSHIELDS.COM
1-800-554-7527



LEARN MORE

