



DEFENDER™ 4 MIL CHARCOAL 40



Construction

Ply	2
Mil Thickness	4

Performance Specifications	Glass Type 1/4"	1/8"
Solar Energy Transmitted %	51	55
Solar Energy Absorbed %	42	39
Solar Energy Reflected %	7	6
Visible Light Transmitted %	37	39
Visible Light Reflected % - Interior	6	5
Visible Light Reflected % - Exterior	7	7
Ultraviolet Rejected %	99	99
Shading Coefficient	.72	.76
Solar Heat Reduction %	28	24
Total Solar Energy Rejected %	37	34
Glare Reduction %	59	57
Emissivity	.86	.86
U-Value	1.11	1.14

DEFENDER™ Safety & Security Window Films

Film-To-Glass Installation Ratings Defender™ 4 Mil Charcoal 40

Single Clear	1
Dual Clear	1
Single Tinted	1
Dual Tinted	2
Low-E	2

Film-To-Glass Installation Ratings

- 1** = Approved for TSF & IGU Seal Failure warranty coverage at no additional fee.
- 2** = NOT approved for TSF & IGU Seal Failure warranty coverage. Apply for coverage with fee.
- 3** = TSF & IGU Seal Failure warranty coverage is NOT available.

Important

Data created from testing of film installed on 1/8" and 1/4" thick clear float glass. Data is representative of actual production. Batch to batch variations are within industry standards.