

**BUILD WITH LIGHT.** Our comprehensive range of coatings, colors and design solutions allows architects to explore fully the aesthetic and functional possibilities of light — both interior and exterior — while meeting complex energy and performance requirements.

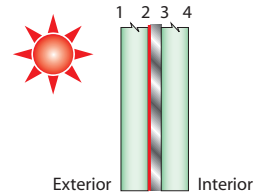
## SunGuard® Laminated Glass

### SAFETY AND HURRICANE PROTECTION

- Excellent solar control
- Can provide sound attenuation, security, safety and hurricane protection
- Passes hurricane small and large missile tests
- A variety of glass makeups to suit virtually any project
- Many performance and appearance options
- Faster delivery than most competitors
- Available through independent Guardian Select™ Fabricators



**SUNGUARD® GIVES YOU  
SOLAR CONTROL...  
AND HURRICANE-RATED  
PERFORMANCE IN ONE  
EYE-PLEASING PACKAGE**



## LAMINATED GLASS DATA

Appearance	Product	Outboard Substrate	Inboard Substrate	Transmission			Reflectance			U-Value		Relative Heat Gain	Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
				Visible Light %	Ultra-violet %	Solar Energy Out %	Visible Light Out %	Visible Light In %	Solar Energy Out %	Winter Nighttime	Summer Daytime				
<b>SunGuard SuperNeutral</b>				Coating #2 Surface								6 mm / .090 PVB / 6 mm			
Ultra Clear	SN 68	UltraWhite	UltraWhite	<b>68</b>	0	31	10	11	40	0.93	0.85	102	0.45	<b>0.39</b>	1.74
Ultra Clear	SN 62	UltraWhite	UltraWhite	<b>63</b>	0	26	12	13	42	0.93	0.85	93	0.40	<b>0.35</b>	1.79
Clear	SN 68	Clear	Clear	<b>67</b>	0	29	11	11	33	0.93	0.85	104	0.46	<b>0.40</b>	1.68
Clear	SN 62	Clear	Clear	<b>61</b>	0	24	12	13	34	0.93	0.85	95	0.42	<b>0.36</b>	1.70
Green	SN 68	Clear	Green	<b>56</b>	0	21	10	9	32	0.93	0.85	93	0.40	<b>0.35</b>	1.62
Green	SN 62	Clear	Green	<b>52</b>	0	18	12	11	34	0.93	0.85	86	0.37	<b>0.32</b>	1.61
Gray	SN 68	Clear	Gray	<b>33</b>	0	15	9	6	32	0.93	0.85	84	0.36	<b>0.31</b>	1.06
Gray	SN 62	Clear	Gray	<b>31</b>	0	13	11	6	34	0.93	0.85	79	0.33	<b>0.29</b>	1.06
Bronze	SN 68	Clear	Bronze	<b>41</b>	0	18	9	7	32	0.93	0.85	88	0.38	<b>0.33</b>	1.23
Bronze	SN 62	Clear	Bronze	<b>37</b>	0	15	11	7	34	0.93	0.85	82	0.35	<b>0.30</b>	1.24
Blue	SN 68	Clear	Blue	<b>42</b>	0	18	9	7	32	0.93	0.85	89	0.38	<b>0.33</b>	1.26
Blue	SN 62	Clear	Blue	<b>39</b>	0	15	11	8	34	0.93	0.85	82	0.35	<b>0.30</b>	1.27
Light Gray	SN 68	Clear	CrystalGray	<b>48</b>	0	21	10	8	32	0.93	0.85	92	0.40	<b>0.35</b>	1.39
Light Gray	SN 62	Clear	CrystalGray	<b>44</b>	0	18	11	9	34	0.93	0.85	85	0.37	<b>0.32</b>	1.40
<b>SunGuard High Performance</b>				Coating #2 Surface								6 mm / .090 PVB / 6 mm			
Light Blue	Light Blue 63	Clear	Clear	<b>65</b>	0	42	10	6	14	0.93	0.85	139	0.64	<b>0.55</b>	1.17
Blue-Green	Light Blue 63	Clear	Green	<b>55</b>	0	26	9	6	13	0.93	0.85	116	0.52	<b>0.45</b>	1.22
Light Gray	Light Blue 63	Clear	CrystalGray	<b>47</b>	0	29	9	5	13	0.93	0.85	121	0.54	<b>0.47</b>	1.00
Royal Blue	Royal Blue 40	Clear	Clear	<b>34</b>	0	22	28	22	26	0.93	0.85	98	0.43	<b>0.37</b>	0.92
Aquamarine	Royal Blue 40	Green	Clear	<b>29</b>	0	14	21	22	13	0.93	0.85	91	0.40	<b>0.34</b>	0.85
<b>SunGuard Solar</b>				Coating #2 Surface								6 mm / .090 PVB / 6 mm			
Silver Blue-Gray	Silver 32	Clear	Clear	<b>31</b>	0	21	22	13	20	0.93	0.85	100	0.44	<b>0.38</b>	0.82
Blue-Green	Silver 32	Green	Clear	<b>26</b>	0	13	17	13	10	0.93	0.85	91	0.40	<b>0.35</b>	0.77
Silver	Silver 20	Clear	Clear	<b>19</b>	0	12	32	21	28	0.93	0.85	80	0.34	<b>0.29</b>	0.64
Green	Silver 20	Green	Clear	<b>16</b>	0	8	24	21	13	0.93	0.85	81	0.35	<b>0.30</b>	0.54

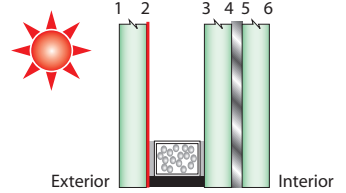
**Please note:** When SunGuard coatings are laminated facing the PVB, there will be a noticeable color change when compared to standard insulated applications. Guardian recommends a full size mock-up be approved.

To learn more, call us at  
**1-866-GuardSG (482-7374)** or visit us  
online [www.SunGuardGlass.com](http://www.SunGuardGlass.com)



**GUARDIAN  
SUNGUARD®**

ADVANCED ARCHITECTURAL GLASS



## INSULATING GLASS W/LAMI INBOARD DATA

Appearance	Product	Outboard Substrate	Inboard Substrate	Transmission			Reflectance			U-Value		Relative Heat Gain	Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
				Visible Light %	Ultra-violet %	Solar Energy Out %	Visible Light Out %	Visible Light In %	Solar Energy Out %	Winter Nighttime	Summer Daytime				
<b>SunGuard SuperNeutral</b>				Coating #2 Surface						6 mm / 12 mm a.s. / 6 mm / 0.090 PVB / 6 mm					
Ultra Clear	SN 68	UltraWhite	UW/UW	67	0	33	10	12	39	0.28	0.27	91	0.44	0.38	1.76
Ultra Clear	SN 62	UltraWhite	UW/UW	62	0	26	11	13	40	0.28	0.26	75	0.36	0.31	1.97
Ultra Clear	SN 54	UltraWhite	UW/UW	53	0	23	13	17	41	0.28	0.27	68	0.32	0.28	1.90
Clear	SN 68	Clear	Clear/Clear	65	0	29	11	12	32	0.28	0.27	88	0.42	0.37	1.76
Clear	SN 62	Clear	Clear/Clear	60	0	24	11	13	33	0.28	0.26	74	0.25	0.31	1.94
Clear	SN 54	Clear	Clear/Clear	52	0	21	13	17	33	0.28	0.27	67	0.32	0.28	1.87
Green	SN 68	Green	Clear/Clear	55	0	21	9	11	9	0.28	0.27	71	0.34	0.30	1.86
Green	SN 62	Green	Clear/Clear	51	0	18	9	12	10	0.28	0.26	63	0.30	0.26	1.94
Green	SN 54	Green	Clear/Clear	44	0	16	10	17	10	0.28	0.27	58	0.27	0.24	1.84
Light Gray	SN 68	CrystalGray	Clear/Clear	47	0	21	8	11	16	0.28	0.27	70	0.33	0.29	1.61
Light Gray	SN 62	CrystalGray	Clear/Clear	43	0	17	8	12	16	0.28	0.26	61	0.28	0.25	1.73
LightGray	SN 54	CrystalGray	Clear/Clear	37	0	15	9	16	17	0.28	0.27	55	0.26	0.23	1.64
<b>SunGuard High Performance</b>				Coating #2 Surface						6 mm / 12 mm a.s. / 6 mm / 0.090 PVB / 6 mm					
Light Blue	Light Blue 63	Clear	Clear/Clear	59	0	36	15	12	15	0.33	0.34	118	0.57	0.49	1.20
Neutral Pewter	Neutral 61	Clear	Clear/Clear	58	0	30	20	14	31	0.29	0.28	93	0.44	0.39	1.50
Neutral Blue	Neutral 50	Clear	Clear/Clear	48	0	26	16	10	19	0.32	0.31	91	0.43	0.38	1.27
Neutral Gray	Neutral 40	Clear	Clear/Clear	38	0	21	20	11	22	0.32	0.32	75	0.35	0.31	1.24
Light Silver	AG 50	Clear	Clear/Clear	48	0	24	28	17	36	0.29	0.28	78	0.37	0.32	1.49
Light Silver	AG 43	Clear	Clear/Clear	39	0	20	30	14	33	0.30	0.29	69	0.32	0.28	1.37
Royal Blue	Royal Blue 40	Clear	Clear/Clear	36	0	20	24	16	24	0.30	0.30	73	0.35	0.30	1.20
Blue-Green	Light Blue 63	Green	Clear/Clear	50	0	23	12	11	8	0.33	0.34	81	0.38	0.34	1.49
Green	Neutral 61	Green	Clear/Clear	49	0	20	15	14	11	0.29	0.28	70	0.33	0.29	1.71
Green	Neutral 50	Green	Clear/Clear	41	0	17	13	10	9	0.32	0.31	67	0.31	0.28	1.48
Green	Neutral 40	Green	Clear/Clear	33	0	14	16	11	10	0.32	0.32	58	0.27	0.24	1.38
Green	AG 50	Green	Clear/Clear	41	0	17	21	17	14	0.29	0.28	60	0.28	0.25	1.64
Green	AG 43	Green	Clear/Clear	33	0	14	23	14	14	0.30	0.29	54	0.25	0.22	1.50
Aquamarine	Royal Blue 40	Green	Clear/Clear	31	0	13	19	16	12	0.30	0.30	55	0.25	0.22	1.38
Silver Gray	AG 50	CrystalGray	Clear/Clear	35	0	17	17	17	19	0.29	0.28	62	0.29	0.26	1.36
Silver Gray	AG 43	CrystalGray	Clear/Clear	28	0	14	18	13	18	0.30	0.29	56	0.26	0.23	1.23
Blue Gray	Royal Blue 40	CrystalGray	Clear/Clear	26	0	14	15	16	14	0.30	0.30	59	0.27	0.24	1.10
<b>SunGuard Solar</b>				Coating #2 Surface						6 mm / 12 mm a.s. / 6 mm / 0.090 PVB / 6 mm					
Silver Blue-Gray	Silver 32	Clear	Clear/Clear	27	0	16	21	20	18	0.40	0.42	72	0.33	0.29	0.95
Silver	Silver 20	Clear	Clear/Clear	17	0	10	31	25	27	0.38	0.39	52	0.23	0.20	0.85
Blue-Green	Silver 32	Green	Clear/Clear	23	0	11	17	20	10	0.40	0.42	58	0.26	0.23	1.01
Green	Silver 20	Green	Clear/Clear	15	0	7	24	25	13	0.38	0.39	46	0.20	0.18	0.82

**NOTES:**

- The performance values shown are nominal and subject to variations due to manufacturing tolerances.
- Guardian performance data are calculated in accordance with the LBNL Window 5.2 computer analysis using an air mass of 1.5.
- Glass may require heat strengthening or tempering to resist potential thermal stresses. Please contact Guardian for assistance.
- A slight shift in visible light reflectance or transmission may be noticed after heat-treatment.
- Guardian recommends edge deletion for all commercial low-E coatings.
- Guardian reserves the right to change product performance characteristics without notice or obligation.
- Some product names have changed: Light Blue 63 (formerly LE-63), Neutral 61 (formerly NP-61), Neutral 50 (formerly LE-50) and Neutral 40 (formerly LE-40).
- Other tinted inboard lite options are available, please contact your guardian representative for more information.
- Changes in PVB thickness have little effect on performance figures shown above.