



LIGHTBASIC™ TECHNICAL DATA

PERFORMANCE DATA & TESTING

Sheet Properties

Abrasion
 Air Infiltration
 Barcol Hardness
 Burn Extent/Rate
 Burning Brand (Panel)
 Color Change
 Diffused Light Transmission
 Flame Spread and Smoke Development
 Flexural Strength and Modulus
 Haze Factor

Test Standard

ASTM D4060
 ASTM E283
 ASTM D2583
 ASTM D635
 ASTM E108
 ASTM D2244
 ASTM D1494
 ASTM E84
 ASTM D790
 ASTM D1003

Sheet Properties

Ignition Temp
 Impact Strength
 Panel Strength
 Solar Transmittance and Reflectance
 Structural Performance
 Tensile Strength and Modulus
 Water Penetration
 Weathering

Test Standard

ASTM D1929
 UL 972
 ASTM E72
 ASTM E424
 ASTM E330
 ASTM D638
 ASTM E331
 ASTM G155

FACE SHEET COLOR COMBINATIONS				
Exterior Sheet Color / Interior Sheet Color				
Additional LightBasic™ Performance Data:	Crystal/ Crystal	Crystal/ White	White/ Crystal	White/ White
	CENTER OF PANEL U-FACTOR¹			
No Insulation			0.48	
Insul 24			0.20	
Insul 15			0.17	
SYSTEM U-FACTOR²				
No Insulation			0.60	
Insul 24			0.32	
Insul 15			0.29	
LIGHT TRANSMISSION³				
No Insulation (%)	75	51	65	45
Insul 24 (%)	51	38	46	34
Insul 15 (%)	40	31	36	28
SOLAR HEAT GAIN COEFFICIENT⁴				
No Insulation	0.47	0.33	0.34	0.33
Insul 24	0.26	0.21	0.21	0.20
Insul 15	0.18	0.15	0.15	0.14
CRF⁵ Glazing - 83 / Frame - 56				
UV TRANSMITTANCE <.01				

¹ For glazing comparisons only (+/- 10%)

⁴ Calculated using ASTM E424 test results

² Estimated using NFRC test standards (+/- 10%)

⁵ Values determined by test data calculation and vary with structural requirements

³ Tested in accordance with ASTM D1494-97

*Test data subject to change with product and testing standard updates.
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