

LuxCore™ and LuxCorePlus™ (translucent FRP) Technical Information

GENERAL INFORMATION:

LuxCore and **LuxCorePlus** are ideal laminates for kitchens, bathrooms and other wet environments, as it passes sanitary codes, is easy to clean and is not damaged by water. They come in translucent panels, laminates, and laminates suitable for back-lighting. They can be used for most vertical and horizontal applications.

LuxCore and LuxCorePlus Translucent Panels are suitable for modesty panels, room dividers, shower enclosures and other interior applications where translucency is desired.

LuxCore and LuxCorePlus Laminates can be used as a wainscot or wall covering, where high abrasion and impact resistance are vital; such as hospitals, restaurants, grocery stores, table tops, elevators, restrooms and other interior applications where laminates are desired. LuxCore Laminates are also suitable for back lighting, as it passes light through beautifully without exposing the bulbs behind it.

PHYSICAL PROPERTIES:

Thicknesses and Weight:

Sheet Size	Lbs. per sheet	Lbs. per square foot
4' x 8' x .045" (.040" - 0.55")	10.80 lbs.	0.34 lbs.
4' x 8' x .060" (.055" - 0.70")	14.40 lbs.	0.45 lbs.
5' x 10' x .060" (.055" - 0.70")	22.75 lbs.	0.45 lbs.
4' x 10' x .120" (.115" - .130")	37.20 lbs.	0.93 lbs.

TECHNICAL PROPERTIES:

PROPERTY	TEST METHOD	TYPICAL VALUE
Barcol Hardness	ASTM D-2583	40
Notched Izod Impact Resistance (ft-lbs./in)	ASTM D-256	7.0
Thermal Coefficient of Lineal Expansion (in/in/F)	ASTM D-696	0.0000160
Water Absorption (%)	ASTM D-570	0.17
Specific Gravity	ASTM D-792	1.53
Fire Rating*	ASTM E-84	LuxCore and LuxCorePlus .045" = Class A LuxCore and LuxCorePlus .060" and above= Class C
CAN/ULC Fire Rating	S102-M88	
Abrasion	NEMA LD3-2005	9,150 cycles

*Special order thicknesses could alter fire rating. Please inquire at time of order.

ADDITIONAL INFORMATION:

CLEANABILITY / SURFACE RESISTANCE	Result
Concentrated Lime-A-Way (un-diluted)	No change
Soft Scrub with bleach	No change
Scrubbing Bubbles shower cleaner	No change

Stain Resistance Testing		LuxCore - clear		LuxCore - pattern	
#	Material	24 Hrs.	7 Day	24 Hrs.	7 Day
1	Wesson Oil®	N	N	N	N
2	Household Ammonia	N	N	N	N
3	409 all-purpose cleaner®	N	N	N	N
4	“Tide” laundry detergent	N	N	N	N
5	Isopropyl Alcohol	N	N	N	N
6	Bleach	N	N	N	N
7	Grape Juice	N	N	N	N
8	Orange Juice Concentrate	N	N	N	N
9	Coffee	N	N	N	N
10	Mustard	S	S	N	N
11	Ketchup	N	N	N	N
12	Red wine	N	N	N	N
13	Coca-Cola®	N	N	N	N
14	Water	N	N	N	N
15	Black crayon	N	N	N	N
16	Lipstick	N	N	N	N
17	Pine-Sol®	N	N	N	N
18	Vinegar	N	N	N	N

Rating scale:

- N = no change
- S = slight change
- M = medium change
- L = large change

Test Temperature: 70° F
 Material cleaned with warm water and cloth.