

carbonzero^{hpl}

CompactX

TECHNICAL DATA SHEET

Useful Information

1. Conditioning and storing CompactX is very important, it should be stored horizontally, at a regular temperature (max. 30°C 86°F) and relative humidity (max. 60%), in a dry and drafty place.
2. In the inside covering of car interiors CompactX must be secured by using rivets and/or bevels. The back of the laminate shall be protected by acoustic tapes to prevent the noise produced by friction. Due to its compact composition, that provides air tightness and greater water resistance, Compact does not need additional protection such as sealers or asphalt products.
3. CompactX should be cut with circular saws at a 8-12 m/min. and 3,000-5,500 r.p.m. speed, the tooth of the saw must be done in plane trapezoidal diamond with alternating geometry. For routed jobs, a cylindrical miller of minimum 12,000 r.p.m. must be used.
4. To perforate CompactX use a tungsten-carbide drill bit with biangular end at 10,000 r.p.m. The selected drill bit must be 0.002 inches (0.05 mm.) bigger than the specific diameter of the hole to be made.
5. CarbonZero CompactX is available in two finishes: Gloss and Matte. We recommend the use of textured laminates in horizontal surfaces as cafeteria tables, desks, kitchen countertops, etc. To avoid damages on the laminate surface, a protection element as a wooden or ceramic piece must be used before doing any kind of cut labor over it. Also use a similar protector element on the laminates to put hot objects with temperature exceeding 135°C(275°F)
6. For stain cleaning or maintenance of CompactX, use water, soft non-abrasive detergents and nylon brushes. Stubborn stains may require the use of hypochlorite bleach dissolved in water. Avoid the use of strong bleachers, organic detergents and abrasive brushes, these could discolor and scratch the surface. Grease stain should be cleaned with a soft cloth and organic solvent or a mixture of 50:50 alcohol-organic solvent, the laminate shall be free of stain without any deterioration of its color tone or its original design.
7. CompactX provides a long-life surface and easy maintenance. They are not suited for laboratory surfaces, where corrosive material, alkalis and strong acids are used in its daily labor because their damage will be inevitable.

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Test	Standard	Field	Unit	Exterior compact laminate specified values
Density	ISO 1183	Mass	g/cm ³	1.35
Length and width	EN 4382-6	Plate	mm	+1 / - 0
Straightness of edges	EN 4382-7	Plate	mm/m	1.0
Squareness	EN 4382-8	Plate	mm/m	1.0
Thickness	EN 4384-5	5,0 ≤ e < 8,0	mm	tol ± 0,4
		8,0 ≤ e < 12,0		tol ± 0,5
		12,0 ≤ e < 16,0		tol ± 0,6
Flatness of panel	EN 4382-9	6 ≤ e < 8,0	mm / m	≤ 5,0
		8 ≤ e -		≤ 3,0
Dimensional stability at elevated temperatures	EN 438 2-17	Longitudinal	% max	0.25
		Transversal	% max	0.25
Impact resistance (large diameter ball)	EN 4382-21	Drop height E= 6 mm	mm Height	≥ 1400
		Drop height E> 6 mm	mm Height	≥ 1800
		Indentation diameter	mm	≤ 10
Moisture resistance	EN 4382-15	Mass gain	%	3
		Appearance	Grade	4
Screw retention	ISO 13894 -1	6 mm thickness	N	2000
		8 mm thickness	N	3000
		10 mm thickness	N	≥ 4000
Resistance to climate shock	EN 4382-19	Appearance	Grade	≥ 4
		Flexural Strength Index	Ds	≥ 0,95
		Flexural Modulus Index	Dm	≥ 0,95
Lineal thermal expansion	ISO 10545-8	Longitudinal	°C ⁻¹	1,6 x 10 ⁻⁵
		Transversal	°C ⁻¹	3,4 x 10 ⁻⁵
UV light resistance	EN 438 2 - 28	Contrast	Gray Scale	4 - 5 (3000 h. Exposure)
		Appearance	Grade	≥ 4 (3000 h. Exposure)
Resistance to artificial weathering (including light fastness)	EN 438 2-29	Contrast	Gray Scale	4 - 5 (After radiant exposure of 325 MJ/m ²)
		Appearance	Grade	≥ 4 (After radiant exposure of 325 MJ/m ²)
Reaction to fire ¹	ASTM E 84	Grade	Class	A
	EN 13501-1			B-s2, d0
Formaldehyde emissions	UL 2818-2013	Formaldehyde	ppb	< 50
	EN 438-7:2015			E1
Thermal conductivity	EN 12524		W/m.k	0,30

¹Applies to laminates from 6 mm thickness and above

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Vanilla
AAM1017



Polar White
AAM1018



Cafe
AAM1024



Stratus
AAM1026



Modern Concrete
AAM1056



Grey Oak
AAM1110



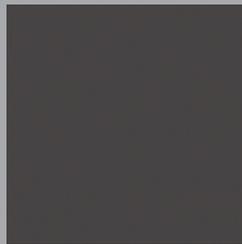
Dark Larch
AAM1115



Tuscan Walnut
AAM1122



Olive
AAM1127



Coal
AAM1175

100's more colors and patterns available to order. Sur charges may apply

CompactX Limited Warranty

CarbonZero warrants that its products are reasonably free of defects, and when properly used, will comply with normal deviations to related manufacturing specifications. This warranty will be extended only to the original buyers for a period of ten (10) years from the purchase date. It excludes damage resulting from accidents, abuse or lack of care, improper use and/or any alteration. Since CarbonZero laminates have a wide range of applications, without the possibility of control over the manufacturing of the end product, CarbonZero does not assume obligations or liabilities arising from the furnishing, sale, installation or repair, use or subsequent sale of any product, to any person or entity. The contents of this brief correspond to common knowledge of High Pressure Laminates. CarbonZero offers this information solely to provide suggestions for your application. Since it's impossible to anticipate all variations in actual end use conditions, no warranties or liabilities can be assumed by CarbonZero in connection to the use of this information. CarbonZero believed the information and recommendations provided herein to be accurate at the time of preparation or obtained from sources believe to be generally reliable. CarbonZero can modify it without prior notice.