Diamond Gard ™ SPC Flooring

Product description: 1220 x 180 x 5.0 + 1.0mmIXPE

Technical Data Sheet

Edition 02.2021

Level of use 34 - Very Heavy Commercial (Areas with intense use)

ISO 10874 / EN 685

	Characteristics	Requirements	PD Values	Test Method
General appearance	Openings between elements, *(o)*	*o* average ≤ 0,15 mm	*o* average ≤ 0,04 mm	ISO 24337
		o max. ≤ 0,20 mm	*o* max. ≤ 0,06 mm	
	Height difference between connected elements, (*h*)	*h* average ≤ 0,10 mm	*h* average ≤ 0,05 mm	ISO 24337
		h max. ≤ 0,15 mm	*h* max. ≤ 0,06 mm	
	Flatness of the element - in the length, (f_l)	f_l, concave ≤ 0,50 %	f_l, concave ≤ 0,00 %	ISO 24337
		f_l, convex ≤ 1,00 %	f_l, convex ≤ N/A %	
	Flatness of the element - in the width, (f_w)	f_w, concave ≤ 0,15 %	f_w, concave ≤ 0,02 %	
		f_w, convex ≤ 0,20 %	f_w, convex ≤ N/A %	
Dimensional stability due to variation of temperature		≤ 0.25%	Length average -0.05% Width average -0.05% Curling average 0.10mm	ISO 23999
Color fastness	Cycle A1, Method 3	N/A	Grade 6	ISO 105-B02
Abrasion resistance		≥ 4000 cycles	≥4900cycles	EN 13329
Scratch resistance		**N/A**	**Rating 3**	**ISO 4586-2**
Micro-scratch resistance	Procedure A	≤ MSR-A2	MSR-A1	EN 16094
Stubbed cigarette test	**Method A**	**N/A**	**≥Rating 4**	**EN 1399**
Impact resistance	Big ball	≥ 1800 mm	1800 mm	EN 13329
Effect of a furniture leg		No damage shall be visible, when tested with foot type 0	No visible damage	EN 424
Castor chair resistance		25 000 cycles, No damage	Pass 25000 cycles	EN 425
Thickness swelling	Length direction	≤ 12 %	0.04%	ISO 24336
	Width direction			
Locking strength - long side		fl0,2 ≥ 2.0 kN/m	6.12	ISO 24334
Locking strength - short side		fs0,2 ≥ 3.5 kN/m	5.69	
Resistance to staining	group 1 and 2	Grade 5	Grade 5	EN 438-2
	group 3	Grade 4	Grade 4	
Additional features if applicable				
Phthalate content test		0.10%	Not detected	EN 14372
Heavy metal migration		Limit 10mg/kg - 100mg/kg	Not detected	EN 71-3
SVHC (Substance of very high concern)		Report limit 0.05% (whole product)	Not detected	REACH
IIC (Calculated Impact Insulation Class)		N/A	54	ASTM E492-09
STC (Calculated Sound Transmission Class)		N/A	53	ASTM E90-2009
Antibacterial test (Applicable to corresponding products)	Escherichia coli ATCC 8739	N/A	Decrement rate > 99%	ASTM E2180
	Staphylococcus aureus ATCC 6538			
	Klebsiella pneumoniae ATCC4352			
	Pseudomonas aeruginosa ATCC15422			
Slip resistance		N/A	Rating 10	DIN 51130