























# Technical specifications Colorex

Colorex meets the requirements of EN 649

		Colorex SD	Colorex EC	Colorex EC Plus	Colorex Basic Plus	R11 Plus
 CE marking	EN 14041	Compliant	Compliant	Compliant	Compliant	Compliant
ASTM**		Compliant	Compliant			
 Total thickness	ISO 24346 / EN 428	2.0 mm / 3.0 mm*	2.0 mm / 3.0 mm*	10.5 mm	10.5 mm	10.5 mm
 Tile size	EN 427	615x615 mm 615x1230 mm*	615x615 mm 615x1230 mm*	608x608 mm	608x608 mm	608x608 mm
 Commercial very heavy	ISO 10874 / EN 685	34	34	34	34	34
 Industrial heavy	ISO 10874 / EN 685	43	43	43	43	43
 Electrical resistance	IEC 61340-4-1 EN 1081 (100V) ANSI/ESD 7.1	$10^6 \leq R \leq 10^8 \Omega$	$5 \times 10^4 \leq R \leq 10^6 \Omega$	$2.5 \times 10^4 \leq R \leq 10^6$	n.a.	n.a.
 Electrical resistance in combination with ESD Shoes	IEC 61340-4-5 ESD STM 97.1	n.a.	$R < 3.5 \times 10^7 \Omega$	$R < 3.5 \times 10^7 \Omega$	n.a.	n.a.
 Outgassing	IDEMA M11-99	total < 1 µg/cm <sup>2</sup>	total < 1 µg/cm <sup>2</sup>	total < 2 µg/cm <sup>2</sup>	total < 2 µg/cm <sup>2</sup>	n.a.
Total TVOC 28 days	AgBB guidelines	< 1 mg/m <sup>3</sup>	< 1 mg/m <sup>3</sup>	< 1 mg/m <sup>3</sup>	< 1 mg/m <sup>3</sup>	n.a.
Total TSVOS 28 days		< 0.1 mg/m <sup>3</sup>	< 0.1 mg/m <sup>3</sup>	< 0.1 mg/m <sup>3</sup>	< 0.1 mg/m <sup>3</sup>	n.a.
 Bacteriostatic	SNV 195 920	Pass	Pass	Pass	Pass	n.a.
 Chemical resistance	ISO 26787 / EN 423	Excellent	Excellent	Excellent	Excellent	Excellent
 Slip resistance	DIN 51130	R9	R9	R9	R9	R11
 Total weight	ISO 23997 / EN 430	3.2 kg/m <sup>2</sup>	3.2 kg/m <sup>2</sup>	12.4 kg/m <sup>2</sup>	12.4 kg/m <sup>2</sup>	11.4 kg/m <sup>2</sup>
 Dimensional stability	ISO 23999 / EN 434	0.05%	0.05%	n.a.	n.a.	n.a.
Thermal dilatation coefficient		n.a.	n.a.	0.11 mm/m°C	0.11 mm/m°C	0.11 mm/m°C
 Residual indentation	ISO 24343-1 / EN 433	0.035 mm	0.035 mm	n.a.	n.a.	n.a.
Resistance to loads (performance may vary, subject to local conditions)		n.a.	n.a.	Powered pallet truck and forklifts: total weight up to 2.5 t with hard wheels and up to 5 t with air tyres. Static loads: 50 kg/cm <sup>2</sup> - dynamic loads: 90 kg/cm <sup>2</sup>		
 Abrasion resistance	EN 660-2	Group M	Group M	Group M	Group M	n.a.
 Castor chair continuous use	ISO 4918 / EN 425	no effect	no effect	no effect	no effect	n.a.
 Light fastness	EN ISO 105 B02	≥ 6	≥ 6	≥ 6	≥ 6	n.a.
 Impact sound reduction	EN ISO 140-8	2 dB	2 dB	12 dB	12 dB	12 dB

All Colorex products meet the requirements of EN 14041



 Body voltage generation, with appropriate ESD shoes	IEC 61340-4-5 ESD STM97.2 EN 1815	40 V	20 V	20 V	< 2 kV	< 2 kV
 Reaction to fire	EN 13501-1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1
 Slip resistance	EN 13893	μ = 0.60	μ = 0.60	μ = 0.60	μ = 0.60	n.a.
 Thermal conductivity	EN 12524	0.28 W/(m·K)	0.28 W/(m·K)	0.28 W/(m·K)	0.28 W/(m·K)	0.28 W/(m·K)

\* Available on request

\*\* Product also tested to ASTM. Results available on request

The quality and environmental management system of Forbo Giubiasco S.A. (CH) where Forbo Colorex is manufactured are certified in accordance with ISO 9001 and ISO 14001



**Forbo**

FLOORING SYSTEMS