

Solution type	Sheet system			
	Products	geo plus tx 2.0 mm	geo plus tx 3.0 mm	geo plus tx 3.0 mm
		chronos plus tx 2.0 mm	chronos plus tx 3.0 mm	chronos plus tx 3.0 mm
		ecoval plus tx 2.0 mm		indelcol plus 3.0 mm
		indelcol plus 2.0 mm		
Formulation		37000	37000	37200
Layers		Homogeneous	Homogeneous	Double backing

Characteristics	Test method	Requirements	Average test results from manufacturing control		
CE					
CE conformity	EN 14041		INDELVAL SAIC - Buenos Aires, ARGENTINA		
Dynamic coefficient of friction	EN 13893	DS	DS	DS	DS
Reaction to fire	EN 13501-1	not bonded	-	-	-
Reaction to fire	EN 13501-1	bonded	Bfl-s1	Bfl-s1	Bfl-s1
Standard specification			EN 1817	EN 1817	EN 1817
Thickness	EN 428	Mean value $\pm 0,15$ mm	2,0 mm	3,0 mm	3,0 mm
Dimensional stability	EN 434	$\pm 0,4$ %	Passes	Passes	Passes
Cigarette burn resistance	EN 1399	Proc. A \geq level 4 Proc. B \geq level 3	Passes	Passes	Passes
Flexibility	EN 435, proc. A	Mandrel diam 20 mm, No fissuring	Passes	Passes	Passes
Hardness	ISO 7619	≥ 75 Shore A	≥ 85 Shore A	≥ 85 Shore A	≥ 85 Shore A
Residual indentation	EN 433	Mean value $\leq 0,15$ mm (thickness < 2,5 mm)	0,05 mm	-	-
		Mean value $\leq 0,20$ mm (thickness $\geq 2,5$ mm)	-	0,08 mm	0,08 mm
Abrasion resistance	ISO 4649, proc. A	≤ 250 mm ³	120 mm ³	120 mm ³	120 mm ³
Color fastness to artificial light	EN 20 105-B02, proc. 3, cond 6.1 A	≥ 6 on the blue scale; ≥ 3 on the grey scale	Passes	Passes	Passes
Classification	EN 685	Residential	23	23	23
		Commercial	34	34	34
		Industrial	42	43	43

Additional properties					
Toxicity of fire gases	NFX 70-100		CIT < 20		
Anti-slip properties	DIN 51130		R9 (plus) R10 (tx)		
Effect of chemicals	EN 423		Resistant *		
Effect of castor chair	EN 425		Suitable **		
Thermal conductivity	ISO 8302		0,20 W/mK	-	-
			Suitable for underfloor heating. Max 27 °C		
Impact noise reduction	ISO 140-8		6 dB	8 dB	8 dB

Additional electrical properties					
Electrical propensity when walked upon	EN 1815		<2 kv, antistatic		
Electrical insulation properties	IEC 60093		>10 ¹⁰ Ohm		

* Depending on concentration and time of exposure. Additional information is available on request.

** Castor wheel type W (EN 12529). Shore A ≤ 90

Color variations due to different production batches as well as technical alterations to improve the product have to be accepted.

Indelval reserves the right to change product characteristics at any time.

EN 1817 | Specification for homogeneous and heterogeneous smooth elastomer floor coverings

EN 12 199 | Specification for homogeneous and heterogeneous relief elastomer floor coverings

Solution type	Tile system			Stair system
Products	geo hm 3.5 mm viva hm 3.5 mm	cerama 3.0 mm textura 3.0 mm clasica 3.0 mm 4.0 mm leganti 3.0 mm 4.0 mm deco 3.2 mm hm 2.7 mm	cerama 3.0 mm textura 3.0 mm clasica 3.0 mm 4.0 mm leganti 3.0 mm 4.0 mm deco 4.0 mm hm 2.7 mm	deco tread cerama tread
Formulation	37000	10000	10200	10000
Layers	Homogeneous	Homogeneous	Double backing	Homogeneous

Characteristics	Test method	Requirements	Average test results from manufacturing control			
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CE

CE conformity	EN 14041		INDELVAL SAIC - Buenos Aires, ARGENTINA			
Dynamic coefficient of friction	EN 13893	DS	DS	DS	DS	DS
Reaction to fire	EN 13501-1	not bonded	-	-	-	-
Reaction to fire	EN 13501-1	bonded	Bfl-s1	Cfl-s1	Cfl-s1	Cfl-s1

Standard specification

			EN 12199	EN 12199	EN 12199	EN 12199	
Thickness	EN 428	Mean value $\pm 0,20$ mm	3,5 mm	2,7 3,0 3,2 4,0 mm	2,7 3,0 4,0 mm	4,0 mm	
Dimensional stability	EN 434	$\pm 0,4$ %	Passes	Passes	Passes	Passes	
Tear strenght	ISO 34-1	Mean value ≥ 20 N/mm	≥ 20 N/mm	≥ 20 N/mm	≥ 20 N/mm	≥ 20 N/mm	
Cigarette burn resistance	EN 1399	Proc. A \geq level 4 Proc. B \geq level 3	Passes	Passes	Passes	Passes	
Flexibility	EN 435, proc. A	Mandrel diam 20 mm, No fissuring	Passes	Passes	Passes	Passes	
Hardness	ISO 7619	≥ 75 Shore A	≥ 85 Shore A	≥ 85 Shore A	≥ 85 Shore A	≥ 85 Shore A	
Residual indentation	EN 433	Mean value $\leq 0,20$ mm (thickness $< 3,0$ mm)	-	0,08 mm	0,08 mm	-	
		Mean value $\leq 0,25$ mm (thickness $\geq 3,0$ mm)	0,08 mm	0,08 mm	0,08 mm	0,08 mm	
Abrasion resistance	ISO 4649, proc. A	≤ 250 mm ³	120 mm ³	120 mm ³	120 mm ³	120 mm ³	
Color fastness to artificial light	EN 20 105-B02, proc. 3, cond 6.1 A	≥ 6 on the blue scale; ≥ 3 on the grey scale	Passes	Passes	Passes	Passes	
Classification	EN 685			2,7 - 3,0 - 3,2 mm 4,0 mm	2,7 - 3,0 mm 4,0 mm		
		Residential	23	23	23	23	23
		Commercial	34	32	34	32	34
		Industrial	43	41	43	41	43

Additional properties

Toxicity of fire gases	NFX 70-100		CIT < 20			
Anti-slip properties	DIN 51130		R9	R9 R10: textura	R9 R10: textura	R9
Effect of chemicals	EN 423		Resistant *			
Effect of castor chair	EN 425		Suitable **			
Thermal conductivity	ISO 8302		-	-	-	-
			Suitable for underfloor heating. Max 27 °C			
Impact noise reduction	ISO 140-8		10 dB	8 dB	8 dB	8 dB

Additional electrical properties

Electrical propensity when walked upon	EN 1815		< 2 kv, antistatic			
Electrical insulation properties	IEC 60093		$> 10^{10}$ Ohm			

* Depending on concentration and time of exposure. Additional information is available on request.

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EN 12 199 | Specification for homogeneous and heterogeneous relief elastomer floor coverings

Solution type		Special applications			
Products	m2000 conductive 2.5 mm 3.0 mm	geo tx SE 7.0 mm	ecosport tx 4.0 mm 7.0 mm	guia 7.0 mm	
		ecosport tx SE 7.0 mm			
		chronos tx SE 7.0			
Formulation	14230	37200	37200	10000	
Layers	Double backing	Double backing	Double backing	Homogeneous	

Characteristics	Test method	Requirements	Average test results from manufacturing control			
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CE

CE conformity	EN 14041		INDELVAL SAIC – Buenos Aires, ARGENTINA			
Dynamic coefficient of friction	EN 13893	DS	DS	DS	DS	DS
Reaction to fire	EN 13501-1	not bonded	-	Cfl-s2	-	-
Reaction to fire	EN 13501-1	bonded	Cfl-s1	-	Cfl-s2	Cfl-s1

Standard specification

Thickness	EN 428 (EN 1817)	Mean value $\pm 0,15$ mm	EN 1817	EN 1817	EN 1817	EN 12199
	EN 428 (EN 12199)	Mean value $\pm 0,20$ mm	2,5 mm 3,0 mm	7,0 mm	4,0 mm 7,0 mm	-
Dimensional stability	EN 434	$\pm 0,4$ %	Passes	Passes	Passes	Passes
Tear strenght	ISO 34-1	Mean value ≥ 20 N/mm	-	-	-	≥ 20 N/mm
Cigarette burn resistance	EN 1399	Proc. A \geq level 4 Proc. B \geq level 3	Passes	Passes	Passes	Passes
Flexibility	EN 435, proc. A	Mandrel diam 20 mm, No fissuring	Passes	Passes	Passes	Passes
Hardness	ISO 7619	≥ 75 Shore A	≥ 85 Shore A	≥ 80 Shore A	≥ 85 (4,0) ≥ 80 (7,0)	≥ 80 Shore A
Residual indentation	EN 433 (EN 1817)	Mean value $\leq 0,15$ mm (thickness $< 2,5$ mm)	-	-	-	-
		Mean value $\leq 0,20$ mm (thickness $\geq 2,5$ mm)	0,05 mm	0,1 mm	0,08 mm (4,0 mm) 0,1 mm (7,0 mm)	-
	EN 433 (EN 12199)	Mean value $\leq 0,20$ mm (thickness $< 3,0$ mm)	-	-	-	-
		Mean value $\leq 0,25$ mm (thickness $\geq 3,0$ mm)	-	-	-	0,1 mm
Abrasion resistance	ISO 4649, proc. A	≤ 250 mm ³	90 mm ³	120 mm ³	120 mm ³	150 mm ³
Color fastness to artificial light	EN 20 105-B02, proc. 3, cond 6.1 A	≥ 6 on the blue scale; ≥ 3 on the grey scale	Passes	Passes	Passes	Passes
Classification	EN 685	Residential	23	23	23	23
		Commercial	34	34	34	34
		Industrial	43	43	43	43

Additional properties

Toxicity of fire gases	NFX 70-100		CIT < 20			
Anti-slip properties	DIN 51130		R9	R10	R10	-
Effect of chemicals	EN 423		Resistant *			
Effect of castor chair	EN 425		Suitable **			
Thermal conductivity	ISO 8302		-	-	-	-
			Suitable for underfloor heating. Max 27 °C			
Impact noise reduction	ISO 140-8		8 dB	20 dB	14 dB (4,0) 20 dB (7,0)	-

Additional electrical properties

Electrical propensity when walked upon	EN 1815		< 2 kv, antistatic	< 2 kv, antistatic	< 2 kv, antistatic	< 2 kv, antistatic
Electrical insulation properties	IEC 60093		see below	$> 10^{10}$ Ohm	$> 10^{10}$ Ohm	$> 10^{10}$ Ohm
Electrical resistance	EN 1081		$< 10^6$ Ohm	-	-	-
Electrical resistance	IEC 61340-4-1		$< 10^6$ Ohm	-	-	-
Electrostatic protection footwear-flooring	IEC 61340-4-5		$\leq 3,5^7$ Ohm	-	-	-

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