

Plastic Extruders Ltd

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PRODUCT DATA SHEET; MATTING, FLOORING & TILES

Jan-07

Sizes & weights		Length tolerances 0/+0.3	Height +/-0.5	Widths			Weight kg/m ²	
				+/- 1 *(FEFS 0 to +2)				
<i>All dimensions are nominal</i>		m	mm	cm				
Roll grid products	Crossgrip	10	14	60	91	122	6.6	
	Firmagrip	10	14	60	91	122	10.5	
	Flexigrid	1.8, 5 & 10	20	60	91		9.7	
	Floorline	10	6	60	91		3.7	
	Frontrunner Entrance Flooring System				*(FEFS 0 to +2)			
		Frontrunner	10	14	60	91		10.5
		Frontrunner	5	14			120	10.5
		Frontrunner - low profile	10	10	60	91		8.7
		Frontrunner - low profile	5	10			120	8.7
		Frontrunner Plus	10	14/16	60	91		10.5
		Frontrunner Plus	5	14/16			120	10.5
		Frontrunner Plus -low profile	10	10/12	60	91		8.7
		Frontrunner Plus -low profile	5	10/12			120	8.7
		Frontrunner Brush	10	14/19	60	91		12.7
		Frontrunner Brush	5	14/19			120	12.7
		Heronair	10	9	50	75	100	4.5
		Herongripa	5 & 10	15	60	91	122	4.0
		Heronrib	10	10	50	100	122	5.3
		HVD	10	13	60	91	122	6.9
		Pillomat	10	8	60	91		3.5
	Vynagrip	5 & 10	15	60	91	122	7.3	
	Vynagrip Plus	10	15	60	91	122	7.3	
	Vynastat	10	11	60	91		5.5	
Vinyl sheet products	Flexi Dot/Eco Dot	25	1.6		98		2.4	
	Flexi Dot Extra/Eco Dot Extra	20	2.5		98		3.8	
	Flexi Coin/Eco Coin	25	1.6		98	150	2.4	
	Flexi Button	20	3.3		98		4.3	
	Flexi Line	25	2		100		2.2	
	Flexi Ridge	20	2.8		100		2.5	
	Flexi Tred	10	4		100		4.2	
Foam products	Spark Safe	18	10		91		5.8	
	<i>rolls, also available</i>	Tuff Spun	18	9	60	91	122	3.3
	<i>in mats</i>	Tuff Spun Plus	18	9		91		3.3
	91 x60, 150,300,600 cm	Tuff Spun Wear	18	13		91		4.0
		Zed Chex/Zed Chex Plus	18	13		91		7.4
		Zed Land	18	9		91		3.3
	100x150, 330, 500 cm	Zed Tred 90	10	13		100		7.8
Tile products	Heron tile	tile	15	33cm x 33cm			4.5	
	Heron tred	tile	16	35cm x 35cm			9.8	
	Plastex Grid - Open	tile	25	50cm x 50cm			3.6	
	Plastex Grid - Closed	tile	25	50cm x 50cm			4.4	

PLASTEX MATTING, FLOORING & TILES - General

APPEARANCES

Roll grid products; Open grid "duckboard" design with textured surface.

Vinyl sheet products; Continuous sheet format with ribbed or circled patterns.

Foam products; Single layer foam or foam thermally fused* to top wear layer.

* **Spark Safe** is glued together.

Tile products; Open grid and closed/continuous surface.

COLOURS

All products available in many homogeneous stable colours.

DURABILITY

Roll grid products; One piece welded construction for maintenance free life.

Vinyl Sheet products; Continuous extruded sheet with high scuff resistance.

Foam products; Extruded vinyl foams*. 2 part mats are thermally fused.

* **Spark Safe** is 100% rubber.

Tile products; Moulded EVA, LLDPE or Vulcanised rubber construction.

WORKABILITY

Available in rolls, modules or tiles for ease of installation.

USES

All locations, from highest hygienic area to heavy industrial areas, both indoor and outside.

See over for technical data

PLASTEX MATTING, FLOORING & TILES - Technical data

Jan-07

ACOUSTIC	PVC Grids & Foam Products; Excellent sound absorption properties. Herontred: ISO 140-8:1998 25dB		
ANTI-FATIGUE	Vynagrip - University of Hertfordshire 1997; Evaluation of Anti Fatigue properties by self reports, sustained attention and electromyography measurements.		Result: - 10% fatigue reduction.
	Foam products - Resilience ASTM 2632	Spark Safe = 35 Zed Land = 33	Zed Chex & Zed Tred 90 = 23 Zed Tred 127 = 24
CHEMICAL	PVC - Grid & Sheet products; Resistant to most acids, alkalines and oils (for specific chemical resistances refer; Chemical Resistance of PVC, Nov 2003, 10 pages, available from Plastic Extruders Ltd). EVA, LLDPE Tiles; Resistant to most acids, alkalines and oils.		
COMPOSITION	PVC Grid & Sheet products; Flexible (plastiscised) Poly Vinyl Chloride. Foam products; Vinyl foam/vinyl wear layer except Spark Safe which is rubber foam/rubber wear layer. Tile products; Plastex Grid = LLDPE, Herontile = EVA, Herontred = Vulcanised rubber.		
COMPRESSION	Vynagrip tested to 11.26 kgs/cm ² Herontred UNE 53-511; 25%		
DIMENSIONAL STABILITY	Herontred: EN 434; 0%		
ELECTRICAL	BS 2782: Part 2 Method 230A	Insulation resistance	Electric strength
	Flexitred	> 2000M Ω	> 20,000 volts
	Flexigrid	> 2000M Ω	= 14,800 volts
	Vynagrip	> 2000M Ω	= 12,600 volts
	HVD	> 2000M Ω	= 11,300 volts
	Pillomat	> 2000M Ω	= 8,500 volts
	Floorline	> 2000M Ω	= 7,000 volts
	Flexitred BS921:1976 Appendix A, passed test but thickness does not comply with clause 5.1 of BS92. Flexitred DIN EN 60243-1: Breakdown voltage 27kV, Dielectric Strength 22.2kV/mm ² Plastex Grid (Closed) Dielectric Strength 40kV/mm, 17,000 volts for 25mm thickness.		
ELECTRO STATIC DISCHARGE (ESD)	Vynastat	- BS 2050: 1978 Table 2. Result Passed. - IEC 1340-4-1. Result DIF Class 2	
	Zed Land	- ASTM D257 : Result 10 ⁹	
FIRE	PVC compound for grid products:	DIN 4102 Part 1- Classification B2. BS 2782 Part 1, method 140A: 1992 (ISO 1210: 1992)	
	Flexitred; UL 94. Horizontal burning test. Classification 94HB.		
	Herontred; UNE 23727-90 - Class M3. Cigarette burn resistance - Class 2; EN1399.		
HYGIENE	Grid & Sheet products: Non-porous 100% Virgin PVC - Inhibits the growth of bacteria. Herontile : Non-porous 100% EVA - Inhibits the growth of bacteria. Sanitized additives. Plastex Grid : Non-porous 100% LLDPE - Inhibits the growth of bacteria.		
Anti-bacteria	Heronrib & Herontile	-Sanitized additive; Test SN195 920 – Determination of the antibacterial effect against Staphylococcus aureus ATCC 6538. Result - Nil Growth, 1mm halo, good effect.	
Anti-fungal	Heronrib & Herontile	- Sanitized additive; Test method ASTM G21-96; determining resistance to fungi. Result - Nil Growth after 4 weeks.	
Stain resistance	Herontred - EN 423; no alterations.		
IMPACT ABSORBING	Herontred: UNE 41958 IN = 40% Herontred: Playground Surfacing; EN1177:1997 = 0.51m height.		
PHOTOLUMINESCENT	Photoluminescent Floorline – DIN 67510 Part 4, after glow properties.		Result 15.5/1.65-239/w-k.
REVERSION	Grid & Sheet products: Thermoplastic shrinkage can result in size reductions up to 2%. Accelerated in hot environments (refer to July '97 Dimensional Stability of Heron Vinyl matting - Plastic Extruders Ltd).		
SLIP RESISTANCE	ASTM F 1677 (Dry/Wet);	Vynagrip (0.7/0.6) Heronair (0.6/0.6) Pillomat (0.6/0.6)	Heronrib (0.6/0.54) Floorline (0.6/0.5) Crossgrip (0.6/0.5)
	DIN 51130 (R=Slip resistance V=Drainage)	Firmagrip R11,V10 Flexitred R10, V8 Fronrunner R11, V10	Flexigrid R11,V10 Floorline R11, V10 Vynagrip R12, V10
	DIN51097	Heronrib Classification C.	Herontile Classification C.
THERMAL	Grid & Sheet products: Functional -23 ⁰ C +60 ⁰ C (slight size variation may occur at temperature extremes). Plastex Grid Functional from -60 ⁰ C to + 70 ⁰ C (slight size variation may occur at temperature extremes).		
UV LIGHT	Grid & Sheet products: Resistant to PVC degradation (red colour is not colourfast in direct sunlight).		
WEAR RATINGS	ASTM D3884 @ 1,000 cycles	Tuff Spun <1g Tuff Spun Wear <0.3g	Tuff Spun Plus <1g Zed Land <0.5g
	UNE 53-527	Herontred 135 cubic mm	
WIND STABILITY	University Of Hertforshire <i>School of Aerospace, Automotive & Design Engineering</i>	Crossgrip stable in Hurrillance Force 12 wind speeds	