

## Technical Data Sheet

Product name	<b>LigaGrass Synergy R 232 22/8</b>
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Application	<b>Multipurpose</b>
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Description	<b>Filled and textured football pitch; Polytan monofilaments made from recycled raw materials with Entanglement technology; 100% Polytan PE-R composition made from regranulated polyethelene, individually extruded, uncut; System components 1: Textured filaments 2000 dtex with crimp, System components 2: Textured Synergy filaments approx. 750 dtex with crimp; Polytan MultiTuft with several filaments in one needle; PolyCoat 100% PU back coating with TuftGuard function; multi-coloured colouration with lime/field green/tan components; resource-saving sports turf</b>
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Yarn data system 1	SI unit
<b>Materials</b>	100 % Polytan PE Recycling
<b>Number of filaments</b>	4
<b>Thickness app.</b>	255 µm
<b>Weight app.</b>	8000 dtex

Yarn data system 2	SI unit
<b>Materials</b>	100 % Polytan PE
<b>Number of filaments</b>	8
<b>Thickness app.</b>	120 µm
<b>Weight app.</b>	6000 dtex

Construction data	
Pile heigth app.	32 mm
Machine gauge	3/8 "
Stitch density app.	220 /m
Number of stitches app.	23100 /m²
Number of filaments app.	554400 /m²
Yarn weight app.	2425 g/m²

Backing construction
<b>Primary backing 1</b> 100 % PP woven fabric, UV stabilised, Interweave Stabilization Technology
<b>Coating</b> PolyCoat 100% PU coating with TuftGuard, waterproof and antifungal

Product data	
<b>Production technology</b>	Tufting velours, zig - zag
<b>Maximum width</b>	4 m
<b>Maximum length</b>	depending on installation width
<b>Total height app.</b>	34 mm
<b>Coating weight app.</b>	650 g/m²
<b>Total weight</b>	3300 g/m²

Gernal data
<b>Turf colour</b> lime / fieldgreen / tan
<b>Line colour</b> white
<b>Elastic layer</b> Polytan EL layer in-situ

Maintenance	<b>Details for maintenance see Polytan maintenance brochure</b>
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In order to maintain our surfaces to the highest and most up to date technical standards, we reserve the right to modify the product data. We advise that the technical values regarding yarn thickness and dtex, as well as the weight, are approximate values and could vary due to technical reasons by +/- 10 %. (November 2022) *Polytan GmbH
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Quality data	SI unit	Norm
<b>Water permeability</b>	500 mm/h	
<b>Tuft pull out force app.</b>	40 N	
<b>Tensile strenght MD* min</b>	15 N/mm	
<b>Tensile strength CD*min.</b>	15 N/mm	
<b>Colour fastness min</b>	3 Grey scale	
	* Rugby > 25 N/mm	

System design			
Elastic layer			
<b>Polytan EL/PolyBase GT min.</b>	25 mm	in-situ, on engineered base	
<b>Polytan ET/PolyBase GT ET min.</b>	35 mm		
Upper layer		in-situ, on dynamic base	
	<b>Sand</b>	hydro classified, clean dried silica sand	
Top layer		<b>Rubber</b> Cork, BrockFILL, Olive, SBR, RPU	

Installation data	
<b>Carpet installation</b>	floating and clamped
<b>Seals</b>	glued with Polytan wet-adhesive or two component-adhesive

Certificates	<b>Recycling content / ISCC Plus certificate*</b>
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