## **TECHNICAL DATA SHEET**

Article No.: 11853 Version: 6	POLYFLEX <sup>®</sup> PES 25	-135 si	mooth T	ribo/Corona silk matt	
Description:	2D Powder for outdoor use based on polyester resins. Gives silk matt surfaces with good flow and good light and weather resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.				
Applications:	Sun protection systems, garden furniture, gardening dools etc.				
Colours:	Almost any colour with few limitations				
Surface:	Smooth				
Gloss:	Visually silkmatt				
	, 15 – 30 Gloss units (60°)				
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 122 μm:	40 – 47 % 96 – 100 %		
	Density	1.4 – 1.8 g/cm <sup>3</sup> can vary depending on the colour; can be specified for each individual colour			
Material consumption:	g/m²	= density (g/cm³) x film thickness (μm)			
Coating thickness:	Recommended	70 – 90 depending on the colour tone			
	Maximum	120 μm			
Application:	The application can be made with all standard powder coating systems. To avoid surface de- fects, we recommend not mixing this type of powder coating with other powder coatings.				
Packaging:	- 20/25 kg cardboard box				
	- 500 kg Octobox				
	- 450/500 kg Big Bag				
	Other packaging variations are available on request.				
Curing time:	<b>Recommended</b> 15 min. at 180°C object tem	perature			
	Object temperature	Minutes hold time min Minutes hold time max			
	200°C	10 min		15 min	
	190°C	12 min		20 min	
	180°C	15 min 25 min			
Substrates:	Various metals, but mainly on appropriately pre-treated aluminium and hot-dip galvanized steel or steel primed with powder paint or KTL. The substrate to be coated must be free of oil, grease and oxidation products. We recommend the following pre-treatment under corrosion stress:				
	Aluminium	A suitable wet-chemical pretreatment or sweeping			
	Steel	Iron or zinc phosphating			
Physical properties:	Tested on 1): Aluminium panel 0.8 Layer thickness: 70 – 90 μm	mm AIMg1 H14	chromated		
	Cross Cut test (DIN ISO 2409)	1) GT 0			
	Mandrel bending test (DIN ISO 1519)	1) ≤ 10 mm			
	Impact resistance	1) front	≥ 5 Nm	(~44 Inchpound)	
	(ASTM D 2794)	1) reverse	≥ 2.5 Nm	(~22 Inchpound)	

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	Erichsen cupping (DIN ISO 1520)	1) ≥ 5 mm			
	Buchholz Hardness (DIN ISO 2815)	≥ 90			
Resistance:	Tested on: Aluminium panel 0.8 mm AlMg1 H14 chromated				
	Condensation water test (DIN ISO 6270)	1000 h no blistering Infiltration on the scratch track under 1 mr			
	Salt spray test (DIN ISO 9227	1000 h no blistering Infiltration on the scratch track under 1 m			
Material Approvals:	-				
Repairs:	For repairs (conveyors hangers touch ups) the repair kit, art. No 10006124 is available.				
Post treatment of coated parts:	Appropriate preliminary tests are recommended for printing, gluing, labeling, film lamination, overcoating and other post treatments. Suitable plasticizer free materials are to be used for the packaging. Avoid condensation.				
Storage:	Storage instruction:	In the original containers, store in a cool and dry environment a max. 25 °C. No direct sun exposure.			
	Shelf life:	18 months from the date of production under the mentioned conditions.			
Safety recommendations:	Lower explosive limit	Please refer to the safety data sheet.			
	Further information can be found in the safety data sheet and the CEPE brochures "safe pow- der coating guideline" and "results of the experimental toxicological studies on thermosetting powdercoatings".				
Comments:	The information in this technical data sheet relative to the properties and application of the product concerned are made on hand of our knowledge, development and practical experience. Because of the multiple possible applications, it is impossible for us to present them all in detail. Our technical consultants are at your disposal for any question you might have. Furthermore, our general sales and delivery conditions apply. This technical data sheet is revised periodically. If necessary, our sales department will confirm the validity of this document.				
Release date:	2/21/24				

