## **TECHNICAL DATA SHEET**

Article No.: 12478	POLYFLEX® PES	5-138 cc	oarse stru	ucture avivage re-			
Version: 7	sistant Corona silk gloss						
Description:	Powder for outdoor use based on polyester resins. Gives silk gloss surfaces with coarse structure and good light and weather resistance. The powder meets avivage resistance according to DIN 329923 for over 90 days and is therefore suitable for applications in the textile industry. Stabilized against overcuring and discolouration in directly gas fired ovens.						
Applications:	Textile machinery, parking and ticket machines and many more						
Colours:	Almost any colour with few limitations						
Surface:	Rough structure						
Gloss:	Visually silkgloss	Visually silkgloss					
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 122 μm:	38 – 47 % 96 – 100 %				
	Density	1.4 – 1.8 g/cm³ 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	80 – 100 depending on the colour tone					
	Maximum	150 μm					
Application:	The application can be made with all standard powder coating systems. Please observe our processing instructions for textured powder coatings VR001D. To avoid surface defects, 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:	Recommended						
	8 min. at 180°C object temperature						
	Object temperature	Minutes hold time min		Minutes hold time max			
	200°C	4 min		8 min			
	190°C	5 min		10 min			
	180°C	8 min		15 min			
	170°C	12 min		20 min			
	160°C	18 min		30 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 mm AlMg1 H14 chromated Layer thickness: 80 – 100 μm						
	Cross Cut test (DIN ISO 2409)	1) GT 0					



	Mandrel bending test	1) ≤ 5 mm				
	Impact resistance (ASTM D 2794)	1) front ≥ 5 Nm (~44 Inchpound)				
		1) reverse	≥ 2.5 Nm	(~22 Inchpound)		
	Erichsen cupping (DIN ISO 1520)	1) ≥ 5 mm				
Resistance:	Tested on: Aluminium panel 0.8 mm AIMg1 H14 chromated					
	Condensation water test (DIN ISO 6270)	1000 h no blistering Infiltration on the scratch track under 1 mm				
	Salt spray test (DIN ISO 9227	1000 h no blistering Infiltration on the scratch track under 1 mm				
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 at 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 powder 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.					
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