TECHNICAL DATA SHEET

Article No.: 11605 Version: 4	POLYFLEX® PES	S-125-GU smoot	th Corona gloss 90			
Description:	Powder for outdoor use based on polyester resins. Gives glossy surfaces with good flow and good light and weather resistance. The product exhibits very good degassing properties. Stabilized against overcuring and discolouration in directly gas fired ovens.					
Applications:	Galvanized steel of all types such as railings, grilles, sunshade systems, doors, gates, frames, vehicle parts, machinery, equipment.					
Colours:	Almost any colour with few limitations					
Surface:	Smooth					
Gloss:	Visually gloss					
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 40 – 47 % 122 μm: 99 – 100 %				
	Density	1.4 – 1.7 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	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 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 10 min. at 180°C object temperature					
	Object temperature	Minutes hold time min	Minutes hold time max			
	210°C	4 min	6 min			
	200°C	5 min	8 min			
	190°C	7 min	13 min			
	180°C	10 min	20 min			
Substrates:	Mainly hot-dip galvanized s applied to KTL or powder co	teel and appropriately pre-trea pating primers. The substrate to	20 min ated aluminium. Coatings can also be to be coated must be free of oil, grease e-treatment under corrosion stress:			
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Substrates:	Mainly hot-dip galvanized s applied to KTL or powder coand oxidation products. We	teel and appropriately pre-trea pating primers. The substrate to recommend the following pre A suitable wet-chemical pre	ated aluminium. Coatings can also be to be coated must be free of oil, grease e-treatment under corrosion stress:			
Substrates: Physical properties:	Mainly hot-dip galvanized s applied to KTL or powder co and oxidation products. We Aluminium	teel and appropriately pre-trea pating primers. The substrate to recommend the following pre A suitable wet-chemical pre A chromate coating, a suita anodised coating.	ated aluminium. Coatings can also be to be coated must be free of oil, grease e-treatment under corrosion stress: etreatment or sweeping			
	Mainly hot-dip galvanized s applied to KTL or powder co and oxidation products. We Aluminium Steel Tested on 1): Aluminium panel 0.8 Layer thickness: 1) 70 – 90 µm	teel and appropriately pre-trea pating primers. The substrate to recommend the following pre A suitable wet-chemical pre A chromate coating, a suita anodised coating.	ated aluminium. Coatings can also be to be coated must be free of oil, grease e-treatment under corrosion stress: etreatment or sweeping ble chromefree pretreatment or a thin			
	Mainly hot-dip galvanized s applied to KTL or powder co and oxidation products. We Aluminium Steel Tested on 1): Aluminium panel 0.8 Layer thickness: 1) 70 – 90 µm Tested on 2) Steel panel galvanised	teel and appropriately pre-trea pating primers. The substrate to recommend the following pre A suitable wet-chemical pre A chromate coating, a suita anodised coating.	ated aluminium. Coatings can also be to be coated must be free of oil, grease e-treatment under corrosion stress: etreatment or sweeping ble chromefree pretreatment or a thin			



	Mandrel bending test (DIN ISO 1519)	1) ≤ 5 mm			
		2) ≤ 12 mm			
	Impact resistance	1) front	≥ 5 Nm	(~44 Inchpound)	
	(ASTM D 2794) Erichsen cupping (DIN ISO 1520)	1) reverse	≥ 2.5 Nm	(~22 Inchpound)	
		2) front	≥ 5 Nm*	(~44 Inchpound)	
		2) reverse	≥ 2.5 Nm*	(~22 Inchpound)	
		1) ≥ 5 mm			
		2) ≥ 3 mm			
	Buchholz Hardness (DIN ISO 2815)	≥ 80			
	(for 1 and 2) (*) ~ µm coating thickness at 20 - 25 °C 1 hour after coating				
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 f conditions.	18 months from the date of production under the mentioned conditions.		
Safety recommendations:	Lower explosive limit	Please refer	to the safety o	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.				
Release date:	2/21/24				

