## **TECHNICAL DATA SHEET**

Article No.: 11607 Version: 3	POLYFLEX® PES 35	5-125-Gl	smooth Cor	ona silk matt		
Description:	Powder for outdoor use based on polyester resins. Gives silk matt 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 silkmatt					
	30 – 45 Gloss units (60°)					
Powder properties:	Particle size distribution (HELOS H1708)	,	40 – 47 % 99 – 100 %			
	Density	$1.4-1.7~{\rm g/cm^3}$ 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 and to prevent deterioration of the properties, 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> 10 min. at 180°C object tem	perature				
	Object temperature	Minutes hole	time min Minu	ites hold time max		
	210°C	4 min	6 mi	n		
	200°C	5 min	8 mi	n		
	190°C	7 min	13 m	nin		
	180°C	10 min	20 m	nin		
Substrates:	Mainly hot-dip galvanized steel and appropriately pre-treated aluminium. Coatings can also be applied to KTL or powder coating primers. 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	A chromate coating, a suitable chromefree pretreatment or a thin anodised coating.				
Physical properties:	Tested on 1): Steel panel 0.8 mm ST1405 pickled twice V1094 Layer thickness: 1) 70 – 90 μm					
	Tested on 2) Steel panel galvanised 2) 50 – 80 μm	d and chromated a	cording to GSB for hotdip galv	anising		



	Cross Cut test (DIN ISO 2409)	1) GT 0				
	(DIN 130 2409)	2) GT 0				
	Mandrel bending test (DIN ISO 1519)	1) ≤ 5 mm				
	(5111 150 1517)	2) ≤ 12 mm				
	Impact resistance (ASTM D 2794)	1) front	≥ 5 Nm	(~44 Inchpound)		
		1) reverse	≥ 2.5 Nm	(~22 Inchpound)		
		2) front	≥ 5 Nm*	(~44 Inchpound)		
		2) reverse	≥ 2.5 Nm*	(~22 Inchpound)		
	Erichsen cupping (DIN ISO 1520)	1) ≥ 5 mm				
		2) ≥ 3 mm				
	<b>Buchholz Hardness</b> (DIN ISO 2815)	≥ 80				
	(for 1 and 2) (*) $\sim$ $\mu$ m coating thickness at 20 - 25 °C 1 hour after coating					
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 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	Please refer to the safety data sheet.			
		Further information can be found in the safety data sheet and the CEPE brochures "safe poder coating guideline" and "results of the experimental toxicological studies on thermosett 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					

