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P-0937

TECHNICAL DATA SHEET

Article No.: 13540 Version: 6	POLYFLEX <sup>®</sup> PES-165-NT Pearl-Metallic smooth Co- rona silk gloss					
Description:	Low bake Pearl metallic powder for outdoor use based on polyester resins. Gives silk gloss sur- faces with good flow and very good light and weather resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.					
Applications:	Metal facades, aluminium profiles, sun protection systems, windows, doors, gates and frames and many more					
Colours:	According do PearlMetallic clour card. Many colours on request					
Surface:	Smooth					
Gloss:	Visually silkgloss 65 – 85 Gloss units (60°)					
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 40 – 47 % 122 μm: 99 – 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. Tribo processing is not recommended due to effect shifts. Please observe our processing instructions for POLYFLEX powder coatings with metallic effect VR003D. For some color shades, overcoating with clear powder is absolutely necessary. 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 160°C object tem	perature				
	Object temperature	Minutes he	old time min	Minutes hold time max		
	200°C	4 min		8 min		
	190°C	5 min		10 min		
	180°C	6 min		12 min		
	170°C	8 min		14 min		
	160°C	10 min		18 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	A suitable wet-chemical pretreatment or sweeping			
	Steel	Iron or zin	Iron or zinc phosphating			
Physical properties:	Tested on 1): Aluminium panel 0.8 mm AlMg1 H14 chromated Layer thickness: 70 – 90 μm					

	Cross Cut test (DIN ISO 2409)	1) GT 0					
	Mandrel bending test (DIN ISO 1519)	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:	-						
	GSB	115n					
	Qualicoat	P-0937					
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 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.						

