



TECHNICAL DATA SHEET

P-0570 DBS 918 340

Article No.: 12829	POLYFLEX® PES	5-135-C	Pearl-Mo	etallic fine structure		
Version: 7	Corona Silk matt					
Description:	Pearl Metallic powder for outdoor use based on polyester resins. Gives silk matt surfaces with fine structure and excellent light and weather resistance. Stabilized against overcuring and discolouration in directly gas fired ovens.					
Applications:	Metal facades, aluminium profiles, sun protection equipment, windows, doors, gates and frames etc.					
Colours:	According do PearlMetallic clour card. Many colours on request					
Surface:	Fine structure					
Gloss:	Visually silkmatt					
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 122 μm:	38 – 45 % 98 – 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: Application:	Recommended	70 – 90 depending on the colour tone				
	Maximum	120 μm				
	powder coatings VR001D. For necessary. To avoid surface other powder coatings.	or some colo	shades, overcoat	r processing instructions for textured ing with clear powder is absolutely ixing this type of powder coating with		
Packaging:	- 20/25 kg cardboard box					
	- 500 kg Octobox					
	- 450/500 kg Big Bag					
	Other packaging variations are available on request.					
Curing time:	Recommended 15 min. at 180°C object temperature					
	Object temperature	Minutes h	old 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 or also as a t	op coat, e.g.		25 min The substrate to be coated must be the following pre-treatments under		
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Substrates:	Various metals or also as a t free of oil, grease and oxida load:	op coat, e.g. tion product: A suitable	. We recommend	he substrate to be coated must be the following pre-treatments under		
Substrates: Physical properties:	Various metals or also as a t free of oil, grease and oxida load: Aluminium	op coat, e.g. tion product: A suitable Iron or zin	. We recommend wet-chemical pre c phosphating	he substrate to be coated must be the following pre-treatments under		



	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:	-						
	Qualicoat	P-0570					
	DB	Product qualification of Deutsche Bahn according do DBS 918 340					
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:	24 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.						
Release date:	2/21/24		•				

