



## **TECHNICAL DATA SHEET**

115|

P-1032

Article No.: 14512	POLYFLEX® PES	-140-SD Qualibond Pearl-Metallic		
Version: 4	smooth Coron	a silk gloss		
Description:	Superdurable specially bonded Pearl metallic powder for outdoor use based on polyester resins Gives silk gloss surfaces with good flow and excellent 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, many more			
Colours:	According do PearlMetallic clour card. Many colours on request.			
Surface:	Smooth			
Gloss:	Visually silkgloss			
Powder properties:	Particle size distribution (HELOS H1708)	29 μm: 40 – 50 % 122 μm: 96 – 100 %		
	Density	1.4 – 1.7 g/cm³ can vary depending on the colour; can be spec 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:	cessing instructions for POL	e with all standard powder coating systems. Please observe our YFLEX powder coatings with metallic effect VR003D. To avoid su 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 200°C object temperature			
	Object temperature	Minutes hold time min Minutes hold time max		
	200°C	10 min 20 min		
	190°C	15 min 30 min		
	180°C	25 min 40 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		
	Steel	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		
	(DIN 130 1319)			
	Impact resistance (ASTM D 2794)	1) front ≥ 2.5 Nm* (~22 Inchpound)		



	Erichsen cupping (DIN ISO 1520)	1) ≥ 5* mm	
	<b>Buchholz Hardness</b> (DIN ISO 2815)	≥ 80	
		Siehe auch aktuelle Prüfnormen "Qualicoat" für Klasse 2 und "GSB" für Master-Systeme	
	(*) cracks; no detachment with a	dhesive tape, with unarmed eye	
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:	-		
	GSB	115l	
	Qualicoat	P-1032	
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.		
Release date:	2/21/24		

