

TECHNICAL DATA SHEET

Article No.: 10035 Leaflet No.: 1756

POLYFLEX® PES-50 smooth Corona silk-gloss 75

Version: 5					
Description:	Silk-gloss powder coating for indoor use based on polyester and epoxy resins. Provides coatings with excellent smooth texture, good adhesion, good hiding powerand good yellowing resistance.				
Applications:	Metal furniture, shelves elements, machine casings, etc.				
Colours:	Many colours				
Surface:	Smooth texture				
Gloss:	Visually silk-gloss, 65 – 85Gloss units (60°)				
Powder properties:	Particle size distribution (HELOS H1708) Density	smaller 29 μ m: 40 – 47 % smaller 122 μ m: 98 – 100% 1.3 – 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 Maximum	70 – 90 μm depending on the colour tone 150 μm			
Application:	The application can be made with the usual electrostatic powder coating systems. To avoid any surfaces disturbances, we recommend not to mix this type of powder withany other powder paint.				
Packaging:	 20/25 kg cardboard 500 kg Octobox 450/500 kg Big Bag Other packaging variation 	ns are available on request.			
Curing time:	Recommended 10 min at 180 °C object temperature				
Curing conditions:	Object temperature 210 °C 200 °C 190 °C 180 °C 170 °C	Minutes hold time 5 min. hold time 6 min. hold time 8 min. hold time 10 min. hold time 15 min. hold time			
Substrates:	Various metals, but primarily as top coat on a KTL pre-treated surface. The support to be coated has to be free of oil, grease and oxidation products. Under exposure to corrosion, we recommend the following pre-treatments: A suitable chemical pretreatment				
	Steel/Iron	Iron or zinc phosphating			

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Physical properties: Tested on:	Cross cut test (DIN ISO 2409)	GT o			
Steel sheet o.8mm ST1405 double-pickled V1094	Mandrel bending test (DIN ISO 1519)	1) ≤ 5 mm			
Layer thickness: 70 – 90 μm	Impact resistance ASTM D 2794 Erichsen cupping (DIN ISO 1520) Buchholz hardness (DIN ISO 2815)	1) front 1) reverse 1) ≥ 8 mm ≥ 90	≥ 10 Nm ≥ 10 Nm	(~88 inchpound) (~88 inchpound)	
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Resistance: Tested on: steel sheet iron phosphated	Condensation water test DIN ISO 6270	500 h no bubble building Infiltration on the scratch track under 1 mm			
	Salt spray test DIN ISO 9227	240 h no bubble building Infiltration on the scratch track under 1 mm			
Post treatment of coated parts:	To print, to paste, to label, to laminate with film, over-coating and other post-treatments, some preliminary testing is recommended. For packaging only use appropriate plasticizers free materials. Condensation must be avoided.				
Repairs:	For repairs (conveyors hangers touch ups) the repair kit, art. No 12155 is available.				
Storage:	Storage instruction:	In the original containers, store in a cool and dry environment by 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 refe	to the safety	y data sheet.	
				eet and the CEPE booklet "Safe powder coaton thermosetting powder coatings".	

Comments:

The information on 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.