



115j

P-1131



## Technical data sheet

Article No.: **12545**  
 Leaflet No.: 1954  
 Version: 10

### POLYFLEX® PES-135 Pearl-Metallic smooth texture Corona Silk-matt

Pearl metallic facade powder for external use on polyester base with excellent light and weather resistance, excellent smooth, excellent covering power and very stable effect pigments. Stabilized against discoloration and burning gas-fired curing ovens in directly. Curing from 180 ° C possible.

**Applications** Metal facades, aluminum profiles, sun protection systems, windows, doors, gates, frames and many more

**Colours** According to special Pearl Metallic color cards. Special colors on request.

**Surface** smooth texture

**Gloss** Silk-matt

**Powder properties**  
**Particle size distribution** (HELOS H1708) smaller 29 µm: 40 – 47 %  
 smaller 122 µm: 98 – 100%  
**Density** 1.4 – 1.8 g/cm<sup>3</sup> different depending on the colour can be specified per colour

**Material consumption** g/m<sup>2</sup> = Density (g/cm<sup>3</sup>) x film thickness (µm)

**Coating thickness**  
 Recommended 70 – 90 µm depending on the colour  
 Maximum 120 µm

**Application** The application can be made with all standard electrostatic systems. The Tribo processing is not recommended due to displacement effects. Please read our technical recommendation powder coatings with a metallic effect VR003D. To avoid any surface disturbances, we recommend not to mix this type of powder with any other powder paint.

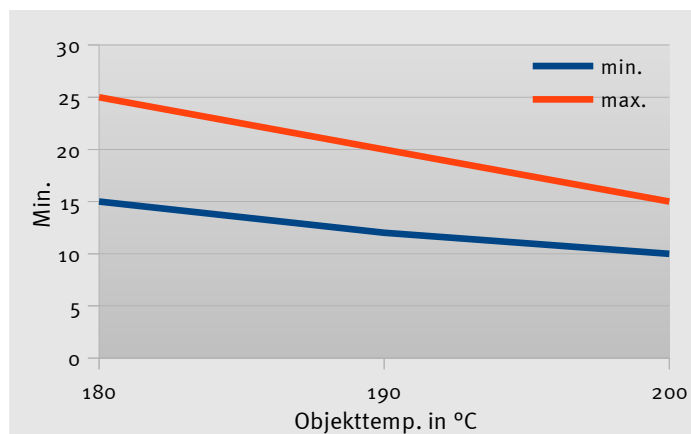
**Packaging**

- 20/25 kg cardboard
- 500 kg Octobox
- 450/500 kg Big Bag

Other packaging variations are available on request.

**Baking diagram** Curing time recommendation: 15 min by 180 °C object temperature

**Curing conditions:**  
 200°C 10 min. hold time  
 190°C 12 min. hold time  
 180°C 15 min. hold time



## Supports

Different metals, however mainly on pre-treated aluminum or hot-dip galvanized or powder coated or anti-corrosion dip-coated steel. The support to be coated has to be free of oil, grease and oxidation products. Under exposure to corrosion, we recommend the following pre-treatment:

<b>Aluminum</b>	Chroma ting, chrome free pre-treatment or thin layer of anodizing coat
<b>Steel/Iron</b>	Galvanization with subsequent chroma ting

## Physical properties

tested on:

Aluminium plate 0,8 mm AlMg1  
H14 chromated

Film thickness  
70 – 90 µm

<b>Cross cut test</b> (DIN ISO 2409)	GT 0
<b>Mandrel bending test</b> (DIN ISO 1519)	< 5 mm
<b>Impact resistance</b> ASTM D 2794	front > 2,5 Nm (~22 inchpound) reverse > 2,5 Nm (~22 inchpound)
<b>Erichsen cupping</b> (DIN ISO 1520)	> 5 mm
<b>Buchholz hardness</b> (DIN ISO 2815)	> 90

## Resistance

tested on:

Aluminium plate 0,8 mm AlMg1  
H14 chromated

<b>Condensation water test</b> DIN ISO 6270	1000 h no bubble building Infiltration on the scratch under 1 mm
<b>Salt spray test</b> DIN ISO 9227	1000 h no bubble building Infiltration on the scratch under 1 mm

## Material approval

<b>GSB Standard</b>	<b>115j</b>
<b>Qualicoat Class 1</b>	<b>P-1131</b>

## 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

**Under explosion limit** 40 g/m<sup>3</sup>

Further information are to find in the safety data sheet and the CEPE booklet „Safe powder coating“ and „Results of experimental toxicology study on 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.



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