







115h

P-0153

10 min. hold time

12 min. hold time

15 min. hold time

## Technical data sheet

12544 Article No.:

Leaflet No.: 1953 Version: 11

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

Pearl metallic powder coatings for exterior use on polyester base with excellent light and weather resistance, very good flow and excellent opacity. Stabilized against discoloration and burning gas-fired curing ovens in directly. Curing can be done

already from 180 ° C.

**Applications** Metal facade, aluminium profile, sun protection system, windows, doors, gates and

frames any many more.

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

Surface smooth texture

Gloss Silk-gloss

**Powder properties** Particle size distribution smaller 29 µm: 40 - 47 %

> (HELOS H1708) smaller 122 µm: 96 - 100%

Density  $1.4 - 1.8 \text{ g/cm}^3$  can vary depending on the colour;

can be specified for each individual colour

 $g/m^2 =$ Density (g/cm<sup>3</sup>) x Film thickness (μm) Material consumption

Coating thickness 60 – 80 μm depending on the colour Recommended

> Maximum 120 µm

**Application** The application can be made with the usual electrostatic powder coating systems. The

Tribo processing is not recommended due to effect shifts.

Please observe our application instructions for POLYFLEX powder paint with metallic

effect VRoo3D.

To avoid any surface disturbances we recommend not to mix this type of powder paint

with any other powder.

**Packaging** 20/25 kg cardboard

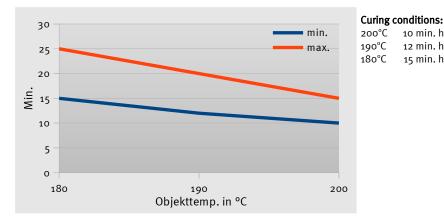
500 kg Octobox

450/500 kg Big Bag

Other packaging variations are available on request.

## **Baking diagram**

## Curing time recommendation: 15 min at 180 °C object temperature



Substrates

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:

Aluminum a suitable chemical pretreatment

Steel/Iron iron or zing phosphating

Physical properties Cross cut test GT o

(DIN ISO 2409) tested on:

Mandrel bending test ≤ 5 mm Aluminium plate o.8 mm AIMg1 (DIN ISO 1519)

H<sub>14</sub> chromated

Film thickness

Impact resistance (~44 inchpound) front ≥ 5.0 Nm (~22 inchpound) ASTM D 2794 reverse ≥ 2.5 Nm 60 – 80 µm

Erichsen cupping ≥ 5 mm (DIN ISO 1520)

**Buchholz hardness** ≥ 90

(DIN ISO 2815)

Resistance Condensation water test 1000 h no bubble building

Infiltration on the scratch track under 1 mm DIN ISO 6270 tested on:

1000 h no bubble building Salt spray test Aluminium plate 0,8 mm AIMg1

H<sub>14</sub> chromated Infiltration on the scratch track under 1 mm DIN ISO 9227

Material approvals **GSB Standard** 115h

> Qualicoat Class 1 P-0153

Post treatment of coated

parts

To print, to paste, to label, to laminate with film, over-coating and other posttreatments, 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 24 months from the date of production under the

mentioned conditions

Lower explosive limit please refer to the safety data sheet Safety recommendations

> 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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