

General Description

CRYLCOAT® 2635-2 is a carboxylated polyester resin for use with CRYLCOAT® 2638-2 in the production of one-shot matte Primid® powder coatings that produce coatings with a 60° gloss range of 20% to 40%. The coatings exhibit very good mechanical properties, flow and outdoor resistance.

(Formerly CRYLCOAT® E 04235)

Preliminary Technical Data Sheet

Saturated Polyester Resin

Product Specification

| | Limits |
|--------------------------------------|---------------|
| Appearance | Pale granules |
| Brookfield Viscosity @ 200 °C, mPa.s | Approx. 3000 |
| Color, b-value | Max. 15 |
| Acid value (mg KOH/g) | Approx. 85 |

Other Properties

| | Typical value |
|-----------------------|---------------|
| Glass transition (°C) | Approx. 62 |

Starting Formulation

| Component | Weight (%) |
|-----------------------|------------|
| CRYLCOAT® 2635-2 | 37 |
| CRYLCOAT® 2638-2 | 37 |
| Primid® XL 552 | 6.4 |
| Barium sulfate | 14.8 |
| Pigment RAL 8014 | 3.5 |
| MODAFLOW® Powder 6000 | 1.0 |
| Benzoin | 0.3 |

Extrusion & Application Conditions

| Extrusion | |
|-------------|-----------------------------------|
| Extruder | Twin screw |
| Speed | 250 rpm |
| Torque | 75 ± 5 % |
| Temperature | 95 to 105 °C |
| Application | |
| Application | 60 micrometer film on steel panel |
| Spray Gun | Output voltage: 60 kV |
| Curing | 10 min @ 200° C metal temperature |

Film Properties

| Test | Result |
|--|---------|
| Gloss 60° (%) | 20-40 |
| Direct/reverse impact (kg. cm or in. lbs.) | 160/160 |

Shelf Life

Under normal storage conditions (≤30°C), the shelf life of the resin will be 12 months from date of manufacturing. For product older than 12 months, it is recommended to check the acid value and the viscosity every year.

Safety & Environmental Protection

For more information, please refer to the Material Safety Data Sheet.

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