

EP-5103

Version: Aug 30,2017

**POWDER COATING
RESINS**

PRIMID

PE : HARDENER = 95 : 5

Description

EP-5103 is a saturated carboxylated polyester resin designed for 95/5 Primid powders to be cured at 180°C. Coatings based on EP-5103 combine a good flow together with super weathering resistance.

Specification

| Item | Limits |
|-----------------------------|-------------|
| Acid value (mg KOH/g) | 32 - 38 |
| Viscosity @ 200 °C, (mPa.s) | 1500 - 2400 |
| Color, b value | Max 10 |

Other

| Item | Typical value |
|-----------------------------------|---------------|
| Glass transition temperature (°C) | 61 |

Storage conditions

The resin in its original unopened bags is stable for more than 1 year, stored in a dry place at temperature below 30°C. Avoid direct sunlight.

Delivery form

Granules. White opaque polyethylene bags of 25kg. One ton per pallet .

Starting Formulation

| Component | Weight (g) |
|------------------|------------|
| EP-5103 | 570 |
| XL-552 | 30 |
| TiO ₂ | 386 |
| Flow agent | 10 |
| Benzoin | 4 |

Application/Extrusion Conditions

| Extrusion | |
|----------------------------------|---|
| Extruder | Twin screw |
| Speed | 250 rpm |
| 1 st Zone Temperature | 100 °C |
| 2 nd Zone Temperature | 115 °C |
| Application | |
| Application | 70 micrometer film on 0.5 mm chromated Al panel |
| Spray Gun | Output voltage: 70 kV |
| Curing | 10 min @ 180° C metal temperature |

Coating Properties

| Test Items | Result |
|--------------------------|--------|
| Film thickness (microns) | 60-80 |
| Gloss @ 60° (%) | 93 |
| Adhesion (grade) | 0 |

System Properties

- ❖ Super weathering resistance
- ❖ Good flow

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