

EP-2119

Version: Aug 30,2017

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| POWDER COATING RESINS | TGIC |
| PE : HARDENER = 93 : 7 | |

Description

EP-2119 is a saturated carboxylated polyester resin designed for 93/7 TGIC powders to be cured at 200°C. Coatings based on EP-2119 combine an excellent flow together with an excellent overbaking resistance.

Specification

| Item | Limits |
|-----------------------------|-------------|
| Acid value (mg KOH/g) | 31 - 37 |
| Viscosity @ 200 °C, (mPa.s) | 3300 - 4300 |
| Color, b value | Max 10 |

Other

| Item | Typical value |
|-----------------------------------|---------------|
| Glass transition temperature (°C) | 65 |

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-2119 | 558 |
| TGIC | 42 |
| TiO ₂ | 386 |
| Flow agent | 10 |
| Benzoin | 4 |

Application/Extrusion Conditions

| Extrusion | |
|----------------------------------|---|
| Extruder | Twin screw |
| Speed | 250 rpm |
| 1 st Zone Temperature | 95 °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 @ 200° C metal temperature |

Coating Properties

| Test Items | Result |
|--------------------------|--------|
| Film thickness (microns) | 60-80 |
| Gloss @ 60° (%) | 94 |
| Cupping test (mm) | 9 |
| Direct impact (kg.cm) | 80 |
| Reverse impact (kg.cm) | 80 |
| Adhesion (grade) | 0 |

System Properties

- ❖ Very good durable ability
- ❖ Excellent flow properties
- ❖ Very good over-baking resistance

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