

General Description

TGIC cure resin, 93/7 type, for outdoor purposes.

- Excellent outdoor durability
- Low temperature cure
- Good flow
- Outstanding mechanical properties
- Suitable for coil powder coatings

Extrusion & Application Conditions

| | |
|----------------|-------------------------------------|
| Extruder: | Lingyu SLJ-20 |
| Zone I temp.: | 85~105℃ |
| Zone II temp.: | 100~120℃ |
| Screw speed: | 400~500rpm |
| Panel: | 0.7mm pre-treated cold-rolled steel |
| Spray gun: | Lingyu SJ-5 |
| Voltage: | 60~90kV |
| Curing cycles: | 20 min. @ 140℃ |

Packaging

- White PE bag, N.W.25kg/bag, 1000kg/pallet.
- Big bags 750 kg

Storage

The product can be stably stored for at least one year when kept in closed containers in a dry place at temperature below 30℃. Avoid exposure to direct sunlight.

Product Specifications

| Property | Range | Test Method |
|------------|----------------|-------------|
| Appearance | clear granule | Visual |
| Viscosity | 25~35 pa.s | ASTM D4287 |
| Acid value | 30~35 mg KOH/g | ASTM D1639 |
| Color | Max 2 | ASTM D1544 |
| Tg | appr. 64 | DSC |

Starting Formulation

| Component | Weight |
|------------------|--------|
| P 5028 | 93.0 |
| LC-TGIC | 7.0 |
| Titanium dioxide | 50.0 |
| LC-88 Flow agent | 1.5 |
| Benzoin | 0.5 |

Film Properties

| Item | Result | Test Method |
|---------------------------------|--------------|-------------|
| Film thickness, μm | approx. 60 | ASTM D1186 |
| Gloss @ 60°, % | min. 90 unit | ASTM D523 |
| Direct/reverse impact, inch lbs | 160/160 | ASTM D2794 |
| 1/8" Conical mandrel | pass | ASTM D522 |
| Adhesion(cross cut) | 5B | ASTM D3359 |
| Pencil hardness | H | ASTM D3363 |

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