

Longcester® P 5420 Saturated carboxylated polyester resin

General Description

Longcester® P 5420 is TGIC curing resin, 96/4 type, for industrial purposes. Can be used for dryblend low gloss with P5016

- · Good outdoor durable
- · Slow cure
- · Good Flow
- · Very good mechanical performance
- · Matt gloss

Extrusion & Application Conditions

Extruder: Lingyu SLJ-20 Zone I temp.: $85^{\circ}105^{\circ}$ C Zone II temp.: $100^{\circ}120^{\circ}$ C Screw speed: $400^{\circ}500$ rpm

Panel: 0.5mm pre-treated cold-rolled steel

Spray gun: Lingyu JP-80 Voltage: 60~90kV

Curing cycles: 10 min. @ 200 °C

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 $^{\circ}$. Avoid exposure to direct sunlight.

| Product Specifications | | |
|-----------------------------|----------------|-------------|
| Property | Range | Test Method |
| Appearance | Clear granules | Visual |
| Acid value, mgKOH/g | 20~24 | ASTM D1639 |
| Viscosity @ 200℃, Pa·s | 40~60 | ASTM D4287 |
| Gardner Color(50% solution) | max.10 | ASTM D1544 |

| Other Data | | |
|---------------------------|------------|-------------|
| Property | Range | Test Method |
| Glass transition temp., C | approx. 65 | DSC |

| Starting Formulation | | |
|----------------------|----------|-------|
| Component | Weight % | |
| LongCester® P 5420 | 660.0 | _ |
| LongCester® P 5015-1 | _ | 618.5 |
| TGIC1) | 27.5 | 69.0 |
| Titanium dioxide2) | 300.0 | 300.0 |
| Flow control agent3) | 9.5 | 9.5 |
| Benzoin | 3.0 | 3.0 |

- 1) Araldite® PT 810, Huntsman Advanced Materials
- 2) Ti-Pure® R-960, DuPont Titanium Technologies
- 3) Resiflow PV 88, Estron, BYK® 366P, BYK

| Film Properties | | |
|---------------------------------|------------|--------------|
| Item | Result | Test Method |
| Film thickness, μm | approx. 60 | ASTM D1186 |
| Gloss @ 60°, % | ~15 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 (Mar) | Н | ISO 15184-98 |

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