

**概述General Description**

龙彩P3504是快速反应聚酯树脂, 适用于50:50混合型粉末涂料:

LongCester® P 3504 is a fast reactivity polyester resin, designed for 50:50 hybrid powder coatings. Coatings based on it exhibit:

良好的流平Good flow

快速固化Fast cure

良好机械性能Good mechanical performance

**挤出 & 应用条件Extrusion & Application Conditions**

挤出机Extruder:: 凌宇 SLJ-25 Lingyu SLJ-25

温区I Zone I temp.: 85-105°C

温区II Zone II temp.: 90-110°C

螺杆转速Screw speed: 300-400rpm

板材Panel: 0.5mm 预处理冷轧钢板 0.5mm pre-treated cold-rolled steel

配枪Spray gun: 凌宇SJ-05 Lingyu SJ-05

电压Voltage: 60-90kV

固化条件Curing cycles: 10min. @ 180°C

**包装Packaging**

白色PE袋, 净重25kg/袋, 1000kg/托盘. White PE bag, N.W. 25kg/bag, 1000kg/pallet.

大包装袋: 750KG Big bags 750 kg

**贮存Storage**

置于干燥、温度低于30°C处的密闭容器内, 本产品可稳定贮存至少1年, 避免阳光照射。

The product can be stably stored for at least one year when kept in closed containers in a dry place at temperature below 30°C.

Avoid exposure to direct sunlight.

**产品说明Product Specifications**

| 特性Property                           | 范围Range           | 测试方法Test Method |
|--------------------------------------|-------------------|-----------------|
| 外观Appearance                         | 颗粒状Clear granules | 目视Visual        |
| 酸值mgKOH/g Acid value mgKOH/g         | 58-65             | ASTM D1639      |
| 粘度Viscosity @ 200°C, Pa.S            | 20-30             | ASTM D4287      |
| 加德纳色度 (50%解决方案) Color (50% solution) | Max 10            | ASTM D1544      |

**其他数据Other Data**

| 特性Property                           | 范围Range    | 测试方法Test Method |
|--------------------------------------|------------|-----------------|
| 玻璃化温度, °C Glass transition temp., °C | approx. 56 | DSC             |

**基础配方Starting Formulation**

| 成分Component         | 重量Weight |
|---------------------|----------|
| P 3504              | 300.0    |
| LC-603H             | 300.0    |
| 钛白粉Titanium dioxide | 300.0    |
| 流平剂LC-88 Flow agent | 1.5      |
| 安息香Benzoin          | 3.0      |
| 碳酸钙填料CaCO3 filler   | 95.5     |

**涂层特性Film Properties**

| 测试项目Item   | 结果Result   | 测试方法Test Method |
|--|------------|-----------------|
| 涂膜厚度, µm Film thickness, µm                      | approx. 70 | ASTM D1186      |
| 光泽度 @ 60°, % Gloss @ 60°, %                      | 92 unit    | ASTM D523       |
| 正/反冲击测试, inch lbs Direct/reverse impact, inch lb | 80/80      | ASTM D2794      |
| 1/8" 弯曲测试 1/8" Conical mandrel                   | 通过pass     | ASTM D522       |
| 附着力(十字划痕) Adhesion(cross cut)                    | 5B         | ASTM D3359      |
| 铅笔硬度 (Mar) Pencil hardness                       | H          | ISO 15184-98    |