# DT8701

Technical Data Sheet

## Polyester resin for powder coatings

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A transparent granular solid synthesized from modified polyols and polybasic acids. Non-toxic, odorless, free of heavy metals and environmentally friendly.

| PRODUCT CATEGORY | APPLICATION | MIX RATIO | PACKAGING |
|---|---|---|---|
| **Polyester resin** | **Polyester/TGIC** | **93:7** | **25 kg PE bag** |

## 1. Product Features

1. Low-temperature fast-curing resin;
2. Good mechanical properties;
3. Widely used in powder coatings for various applications.

## 2. Application Fields

Suitable for polyester/TGIC powder coating systems; high-gloss, matte and special-effect finishes are all applicable.

## 3. Process Characteristics

1. Extruder temperature: zone 1 105-120℃, zone 2 110-120℃;
2. Extruder speed: 200-300 rpm;
3. Spray-applied to sanded and degreased cold-rolled steel or aluminum.

## 4. Storage & Packaging

Store in a dry place below 30℃. Protect from moisture, rain and direct sunlight, and keep away from ignition sources. Shelf life is one year; re-inspection is required before use beyond this period. Packaging: 25 kg per polyethylene bag.

## 5. Recommended Formulations for Customer Trials (High Gloss)

| NO. | Raw Material | Formula ①/93:7 TGIC |
|---|---|---|
| 1 | Polyester resin (DT8701) | 600 |
| 2 | TGIC | 45.2 |
| 3 | HAA | |
| 4 | Epoxy resin | |
| 5 | Leveling agent (588) | 10 |
| 6 | Gloss enhancer (701) | 10 |
| 7 | Benzoin | 4 |
| 8 | Wax powder | 4 |
| 9 | Titanium dioxide | 180 |
| 10 | Precipitated barium sulfate (high gloss) | 143.8 |
| 11 | Matting barium sulfate | |
| 12 | Matting agent | |
| 13 | Texturing additive | |
| 14 | Carbon black | |
| 15 | Other | 3 |
| | **Total** | **1000** |
| **Curing conditions (Temp./Time)** | | 160℃/10min |

## 6. Typical Properties

| Appearance | Acidity value: mgKOH/g | Viscosity (mPa・s/200℃) | Glass transition temperature |
|---|---|---|---|
| Flake solid | 30-36 | 5000-7000 | ≥63℃ |

Special Note: The technical parameters of polyester resin DT8701 described herein are for reference only. As the customer's application and processing are beyond our control, no warranty or obligation is assumed, and no legal or regulatory liability is accepted. The Company reserves the right to modify the technical parameters of polyester resin (DT8701) as required without prior notice.

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