DT5503

Technical Data Sheet

Polyester resin for powder coatings

Chuzhou Dongtu Chemical New Materials Technology Co., Ltd.
滁州东涂化学新材料科技有限公司

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/Epoxy**	**5:5**	**25 kg PE bag**

1. Product Features

1. High gloss, solvent resistance and good film fullness;
2. High filler loading;
3. Widely used in powder coatings for various applications.

2. Application Fields

Suitable for polyester/epoxy 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 ①/5:5 Epoxy
1	Polyester resin (DT5503)	300
2	TGIC	
3	HAA	
4	Epoxy resin	300
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)	
11	Matting barium sulfate	169
12	Matting agent	20
13	Texturing additive	
14	Carbon black	
15	Other	3
	Total	**1000**
Curing conditions (Temp./Time)		180℃/15min

6. Typical Properties

Appearance	Acidity value: mgKOH/g	Viscosity (mPa・s/200℃)	Glass transition temperature
Flake solid	65-75	2500-4500	≥55℃

Special Note: The technical parameters of polyester resin DT5503 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 (DT5503) as required without prior notice.

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