DT3909

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/TGIC**	**90:10**	**25 kg PE bag**

1. Product Features

1. General industrial-grade dry-blend matting resin;
2. Good leveling and fine surface;
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 (Dry-Blend Matting)

NO.	Raw Material	Formula ①/90:10 TGIC
1	Polyester resin (DT3909)	495
2	TGIC	55
3	HAA	
4	Epoxy resin	
5	Leveling agent (588)	10
6	Gloss enhancer (701)	
7	Benzoin	5
8	Wax powder	5
9	Titanium dioxide	
10	Precipitated barium sulfate (high gloss)	
11	Matting barium sulfate	420
12	Matting agent	
13	Texturing additive	
14	Carbon black	7
15	Other	3
	Total	**1000**
Curing conditions (Temp./Time)		200℃/10min

6. Typical Properties

Appearance	Acidity value: mgKOH/g	Viscosity (mPa・s/200℃)	Glass transition temperature
Flake solid	50-55	3500-4500	≥67℃

Special Note: The technical parameters of polyester resin DT3909 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 (DT3909) as required without prior notice.

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