DT9422

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/HAA • Polyester/TGIC	95:5 • 94:6	25 kg PE bag

1. Product Features

1. Economical general-purpose polyester resin;
2. High Tg; suitable for recoating and cold-oven curing;
3. Widely used in powder coatings for various applications.

2. Application Fields

Suitable for polyester/TGIC and polyester/HAA 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 ①/95:5 HAA	Formula ②/94:6 TGIC
1	Polyester resin (DT9422)	530	600
2	TGIC		38.3
3	HAA	34	
4	Epoxy resin		
5	Leveling agent (588)	10	10
6	Gloss enhancer (701)	10	10
7	Benzoin	5	4
8	Wax powder	5	4
9	Titanium dioxide	180	180
10	Precipitated barium sulfate (high gloss)	223	150.7
11	Matting barium sulfate		
12	Matting agent		
13	Texturing additive		
14	Carbon black		
15	Other	3	3
	Total	**1000**	**1000**
Curing conditions (Temp./Time)		200℃/10min	200℃/10min

6. Typical Properties

Appearance	Acidity value: mgKOH/g	Viscosity (mPa・s/200℃)	Glass transition temperature
Flake solid	27-32	4000-6000	≥65℃

Special Note: The technical parameters of polyester resin DT9422 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 (DT9422) as required without prior notice.

Chuzhou Dongtu Chemical New Materials Technology Co., Ltd.

Tel：(+86) 0550-4836000　Fax：(+86) 0550-4836000　Email：dongtuchemistry@163.com

Address: Yihe Road, Salt Chemical Industrial Park, Dingyuan County, Chuzhou City, Anhui Province