DT9403-1

Technical Data Sheet

Polyester resin for powder coatings

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

1. Product Features

1. General industrial-grade polyester resin;
2. Suitable for texture powders and internal-extrusion processes; also for high gloss;
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 ①/94:6 TGIC	Formula ②/95:5 HAA
1	Polyester resin (DT9403-1)	558	600
2	TGIC	42	
3	HAA		31.6
4	Epoxy resin		
5	Leveling agent (588)		10
6	Gloss enhancer (701)		10
7	Benzoin	4	4
8	Wax powder	5	4
9	Titanium dioxide	200	180
10	Precipitated barium sulfate (high gloss)	186.5	157.4
11	Matting barium sulfate		
12	Matting agent		
13	Texturing additive		
14	Carbon black	0.5	
15	Other	4	3
Note: item 15 "Other" includes 1 part of CAB.			
	Total	**1000**	**1000**
Curing conditions (Temp./Time)		200℃/10min	180℃/15min

6. Typical Properties

Appearance	Acidity value: mgKOH/g	Viscosity (mPa・s/200℃)	Glass transition temperature
Flake solid	28-33	3000-4000	≥63℃

Special Note: The technical parameters of polyester resin DT9403-1 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 (DT9403-1) as required without prior notice.

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