DT9455T

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 • Polyester/HAA**	**93:7 • 95:5**	**25 kg PE bag**

1. Product Features

1. Polyester resin for coil coating backers;
2. Rapid curing at high and low temperatures; excellent mechanical properties; highly cost-effective;
3. Excellent delayed impact; suitable for thick workpieces and valve powders.

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 ①/93:7 TGIC	Formula ②/95:5 HAA
1	Polyester resin (DT9455T)	558	600
2	TGIC	42	
3	HAA		31.5
4	Epoxy resin		
5	Leveling agent (588)	10	10
6	Gloss enhancer (701)	8	10
7	Benzoin	5	4
8	Wax powder	5	4
9	Titanium dioxide	150	180
10	Precipitated barium sulfate (high gloss)	219	157.5
11	Matting barium sulfate		
12	Matting agent		
13	Texturing additive		
14	Carbon black	0.5	
15	Other	2.5	3
	Total	**1000**	**1000**
Curing conditions (Temp./Time)		270℃/1-2min	270℃/1-2min

6. Typical Properties

Appearance	Acidity value: mgKOH/g	Viscosity (mPa・s/200℃)	Glass transition temperature
Flake solid	28-34	5500-6500	≥63℃

Special Note: The technical parameters of polyester resin DT9455T 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 (DT9455T) as required without prior notice.

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