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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-4405

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POWDER COATING RESINS	TGIC
PE : HARDENER = 96 : 4	

Description

GH-4405 is a saturated carboxylated polyester resin designed for 96/4 TGIC powders to be cured at 200°C. A 1:1 dry blend based on GH-4403 and GH-4405 gives a very nice matte finish at approximately 26-30 % gloss at 60 degree.

Specification

Item	Limits
Acid value (mg KOH/g)	20 - 26
Viscosity @ 200 °C, (mPa.s)	7500 - 9500
Color,b value	Max 10

Other

Item	Typical value
Glass transition temperature (°C)	60

Storage conditions

The resin in its original unopened bags is stable for more than 1 year, stored in a dry place at temperature below 30°C. Avoid direct sunlight.

Delivery form

Granules. White opaque polyethylene bags of 25kg. One ton per pallet .

Starting Formulation

Component	Weight (g)
GH-4405	576
TGIC	24
TiO_2	386
Flow agent	10
Benzoin	4

Application/Extrusion Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
1st Zone Temperature	100°C
2nd Zone Temperature	120 °C
Application	
Application	70 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 70 kV
Curing	10 min @ 200° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	90
Cupping test (mm)	9
Direct impact (kg.cm)	120
Reverse impact (kg.cm)	120
Adhesion (grade)	0

System Properties

- Outstanding storage stability
- High chemical resistance
- Excellent durable resistance
- Good flow

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