KHUA®
ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-4409

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POWDER COATING RESINS	TGIC
PE : HARDENER = 95 : 5	

Description

GH-4409 is a saturated carboxylated polyester resin designed for 95/5 TGIC powders to be cured at 200°C. A 1:1 dry blend based on GH-4401 and GH-4409 gives a very nice matte finish at approximately 26-30 % gloss at 60 degree.

Specification

Item	Limits
Acid value (mg KOH/g)	19 - 24
Viscosity @ 200 °C, (mPa.s)	5000 - 6000
Color, b value	Max 10

Other

Item	Typical value
Glass transition temperature (°C)	63

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-4409	570
TGIC	30
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)	160
Reverse impact (kg.cm)	160
Adhesion (grade)	0

System Properties

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

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