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ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-4421

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POWDER COATING RESINS	TGIC
PE : HARDENER = 95 : 5	

Description

GH-4421 is a saturated carboxylated polyester resin designed for 95/5 TGIC powders to be cured at 200°C, it combined with GH-4420 for dry blend matt application. Coatings based on GH-4421 combine a good flexibility and good mechanical property.

Specification

Item	Limits
Appearance	Pale granules
Acid value (mg KOH/g)	22 - 28
Viscosity @ 200 °C, (mPa.s)	4500 - 5500
Color(b*)	Max 10

Other

Item	Typical value
Glass transition temperature (°C)	54

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-4421	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	115 °C
Application	
Application	70 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 70 kV
Curing	15 min @ 200° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	95
Cupping test (mm)	8
Direct impact (kg.cm)	50
Reverse impact (kg.cm)	50
Adhesion (grade)	0

System Properties

- Excellent flexibility
- Good mechanical property

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