KHUA®
ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-7705

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POWDER COATING RESINS	TGIC
PE : HARDENER = 93 : 7	

Description

GH-7705 is a saturated carboxylated super-durable grade polyester resin designed for 93/7 TGIC powders to be cured at 200°C. Coatings based on GH-7705 combine a excellent high temperature resistance property together with good anti-blooming property.

Specification

Item	Limits
Appearance	Pale granules
Acid value (mg KOH/g)	30 - 34
Viscosity @ 200 °C, (mPa.s)	5800 - 6800
Color(b*)	Max 10

Other

Item	Typical value
Glass transition temperature (°C)	65

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-7705	558
TGIC	42
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	10 min @ 200° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	94
Cupping test (mm)	5
Direct impact (kg.cm)	30
Reverse impact (kg.cm)	30
Adhesion (grade)	0

System Properties

- Super-durable grade
- Good flow
- High temperature resistance
- Non-blooming

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