KHUA®
ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-1163

Version:September 1,2020

POWDER COATING RESINS	HYBRID
PE : HARDENER = 60 : 40	

Description

GH-1163 is a saturated carboxylated polyester resin designed for 60/40 hybrid powders to be cured at 180°C. Coatings based on GH-1163 combine a good flow together with an excellent overbaking resistance.

Specification

Item	Limits
Acid value (mg KOH/g)	48 - 54
Viscosity @ 175 °C, (mPa.s)	7800 - 9800
Color, b value	Max 15

Other

Item	Typical value
Glass transition temperature (°C)	55

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-1163	360
Epoxy resin	240
TiO_2	386
Flow agent	10
Benzoin	4

Application/Extrusion Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
1st Zone Temperature	95 °C
2nd Zone Temperature	105 °C
Application	
Application	70 micrometer film on 0.5 mm steel panel
Spray Gun	Output voltage: 70 kV
Curing	15 min @ 180° C metal temperature

Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	92
Cupping test (mm)	7
Direct impact (kg.cm)	160
Reverse impact (kg.cm)	160
Adhesion (grade)	0

System Properties

- High gloss
- Very good flow
- Good mechanical properties
- Excellent over-baking resistance

ZHEJIANG GUANGHUA TECHNOLOGY CO., LTD www.khua.com	Customer Service	Technical Service
	Tel. 86-573-87771555 Fax 86-573-87771222	Tel. 86-573-87771188 Fax 86-573-87771222

Although the facts and suggestions in this publication are based on our own research and are believed reliable, we cannot assume any responsibility for performance or results obtained through the use of our products herein described, nor do we accept any liability for loss or damages directly or indirectly caused by our products. The user is held to check the quality, safety and all other properties of our product prior to use. Nothing herein is to be taken as permission, inducement or recommendation to practise any patented invention without a license.