KHUA®
ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-6603

Version: September 1,2020

POWDER COATING RESINS	PU
PE : HARDENER = 80 : 20	

Description

GH-6603 is a saturated hydroxylated polyester resin designed for 80/20 polyurethane powders to be cured at 200°C. Coatings based on GH-6603 exhibit good flow and good mechanical properties, chemical and weathering resistance. It also can be used in clearcoat.

Specification

Item	Limits
Hydroxyl value (mg KOH/g)	45 - 55
Viscosity @ 200 °C, (mPa.s)	5000 - 6000
Color,b value	Max 10
Acid value (mg KOH/g)	Max 8

Other

Item	Typical value
Glass transition temperature (°C)	57

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-6603	480
Vestgon B 1530	120
TiO_2	385
Flow agent	10
Benzoin	5

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)	7
Direct impact (kg.cm)	80
Reverse impact (kg.cm)	80
Adhesion (grade)	0

System Properties

- Very good weathering resistance
- Very good mechanical properties
- Very good chemical resistance
- Excellent flow
- No blooming

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