KHUA®
ZHEJIANG GUANGHUA TECHNOLOGY

Technical Data Sheet

GH-6609

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POWDER COATING RESINS	PU
PE : HARDENER = 85 : 15	

Description

GH-6609 is a saturated hydroxylated superdurable polyester resin designed for 85/15 polyurethane powders to be cured at 200°C. Coatings based on GH-6609 combine excellent flow together with excellent weathering resistance.

Specification

Item	Limits
Appearance	Pale granules
Hydroxyl value (mg KOH/g)	25 - 31
Viscosity @ 175 °C, (mPa.s)	3500 - 5000
Color(b* value)	Max 10
Acid value (mg KOH/g)	Max 5

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-6609	510
Vestgon B 1530	90
TiO_2	385
Flow agent	10
Benzoin	5

Application/Extrusion Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
1st Zone Temperature	95 °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° (%)	95
Cupping test (mm)	8
Direct impact (kg.cm)	50
Reverse impact (kg.cm)	50
Adhesion (grade)	0

System Properties

- Good mechanical property
- Good chemical resistance
- Excellent flow

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

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