

Acrylic Hardener

General Description

Alymers® AC2105 is a glycidyl functionalized polyacrylic resin designed as a matting hardener for carboxylated polyester resins.

Coating based on carboxylated polyester resin such as Alymers® TC3004 or PC2811, cured with appx.22.5% of Alymers® AC2105 exhibit full matte effect. Gloss level is under appx.5 at 60°

Product Properties / Typical values

Item	Specification	Test Method
Appearance	Pale Flakes	Visual
Color	Max. 3	ASTM D 1544
EEW (g/eq, Dioxane)	450-550	-
Non Volatile (wt.%)	Min. 98	150 °C x30min
Glass transition temp (°C)	Approx. 62	ISO 11357-2

Starting Powder Formulation

Component	Weight (%)	
Alymers® AC2105	13.72	13.72
Alymers® PC2808 / PC2820	47.26	-
Alymers® TC3004 / TC3010	-	47.26
Araldite PT 810 (Huntsman)	-	1.22
INOMID AH001 (INOPOL)	1.22	-
Ti-Pure R-902+ (DuPont-Titan)	24.39	24.39
Filler (BaSO ₄)	12.20	12.20
Resiflow PV5 (Worlee)	0.91	0.91
Benzoin (BASF)	0.30	0.30

* Cure schedule: 14min @200°C (substrate temperature)

Packaging

Alymers® products are delivered in a 20kg polyethylene bag as standard and other packaging sizes are available.

Storage & Handling

The resin should be stored in dry, cool and well ventilated places preferably below 25°C.

- Keep away from heat sources and direct sunlight.
- Do not stack more than two pallets.

Shelf Life

Under the recommended storage conditions, the shelf life of the resin will be 12 months from shipment date. The resin older than 12 months, after the shipment, it is recommended to check the properties before use.

Safety Information

Please refer to the Material Safety Data Sheet.

Revised in July 2020 (Version 4.0)