

General Description

CRYLCOAT® 2592-0 is a low reactive, carboxyl functional polyester resin for the formulation of powder coatings with Araldite® PT-910. Coatings based on CRYLCOAT® 2592-0 exhibit excellent flow, good outdoor resistance and good outdoor stability.

Saturated Polyester Resin

Product Specification

| | Limits |
|--------------------------------------|---------------|
| Appearance | Pale granules |
| Brookfield Viscosity @ 200 °C, mPa.s | 8500-12500 |
| Color, b-value | Max. 10 |
| Acid value (mg KOH/g) | 23-29 |

Other Properties

| | Typical value |
|-----------------------|---------------|
| Glass transition (°C) | Approx. 70 |

Starting Formulation

| Component | Weight (%) |
|-----------------------|------------|
| CRYLCOAT® 2592-0 | 63.1 |
| Araldite® PT-910 | 5.5 |
| Titanium dioxide | 30.0 |
| MODAFLOW® Powder 6000 | 1.0 |
| Benzoin | 0.4 |

Extrusion & Application Conditions

| Extrusion | |
|-------------|--|
| Extruder | Twin screw |
| Speed | 200 rpm |
| Torque | 60 to 70 % |
| Temperature | 125 to 135 °C |
| Application | |
| Application | 60 micrometer film on 0.5 mm steel panel |
| Spray Gun | Output voltage: 60 kV |
| Curing | 10 min @ 200 °C metal temperature |

Film Properties

| Test | Result |
|---|---------|
| Gloss @ 20°/60° (%) | 83/93 |
| Direct/reverse impact (kg. cm. or in. lbs.) | 160/160 |

Shelf Life

Under normal storage conditions ($\leq 30^{\circ}\text{C}$), the shelf life of the resin will be 24 months from date of manufacturing. For product older than 24 months, it is recommended to check the acid value and the viscosity every year.

Safety & Environmental Protection

For more information, please refer to the Material Safety Data Sheet.

July 2020 – Supersedes previous versions