

General Description

CRYLCOAT® 4540-0 is a superdurable carboxyl functional polyester resin for the formulation of superdurable powder coatings with 7% of Araldite® PT-910 or Araldite® PT-912. Coatings based on CRYLCOAT® 4540-0 exhibit excellent outdoor durability.

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	5000-13000
Color, b-value	Max. 10
Acid value (mg KOH/g)	23-27

Other Properties

	Typical value
Glass transition (°C)	Approx. 67

Starting Formulation

Component	Weight (%)
CRYLCOAT® 4540-0	64.8
Araldite® PT-910	4.9
Titanium dioxide	29.0
MODAFLOW® Powder 6000	1.0
Benzoin	0.3

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	75 ± 5 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200° C metal temperature

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.

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