

## General Description

CRYLCOAT® 4659-0 is a superdurable carboxyl functional polyester resin for use with Primid® or TGIC to manufacture superdurable powder coatings. Coatings based on CRYLCOAT® 4659-0 exhibit outstanding flow and are blooming free.

CRYLCOAT® 4659-0 belongs to the ECOWISE™ CHOICE product range for selected applications. (Contact your allnex representative for more information).

## Saturated Superdurable Polyester Resin

### Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	3000-4400
Color, b-value	Max. 10
Acid value (mg KOH/g)	30-36

### Other Properties

	Typical value
Glass transition (°C)	Approx. 59

### Starting Formulation

Component	Weight (%)	
	CRYLCOAT® 4659-0	63.8
TGIC	4.8	--
Primid® XL 552	--	3.5
Titanium dioxide	30.0	29
MODAFLOW® Powder 6000	1.0	1.0
Benzoin	0.4	0.3

### Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	70 ± 5 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV
Curing	Primid®: 10 min @ 190° C metal temperature TGIC : 10 min @ 200° C metal temperature

### Film Properties

Test	Result
Gloss @ 60° (%)	90
Reverse impact of Primid® System (in-lbs. or kg.cm)	Approx. 80

### Shelf Life

Under normal storage conditions (≤30°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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