

General Description

CRYLCOAT® 4651-0 is a Primid® superdurable resin designed for matte one-shot systems to produce, in combination with CRYLCOAT® 4693-2, powder coatings with 60° gloss between 5 and 12%. The coatings show good flow and outdoor durability.

(Formerly CRYLCOAT® E 04251)

Preliminary Technical Data Sheet

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	Approx. 4000
Color, b-value	Max. 15
Acid value (mg KOH/g)	Approx. 21

Other Properties

	Typical value
Glass transition (°C)	Approx. 59

Starting Formulation

Component	Weight (%)
CRYLCOAT® 4651-0	37.2
CRYLCOAT® 4693-2	37.2
Primid® XL 552	6.0
Barium sulfate	14.8
Pigment RAL 8014	3.5
MODAFLOW® Powder 6000	1.0
Benzoin	0.3

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	300 rpm
Torque	70 to 80 %
Temperature	85 to 100 °C
Application	
Application	60 micrometer film on 0.5 m steel panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200 °C metal temperature

Film Properties

Test	Result
Gloss @ 60° (%)	5-12

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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