

General Description

CRYLCOAT® 4642-3 is a superdurable carboxyl functional polyester resin for use with Primid® XL 552 or QM 1260 in ratios 95/5 or 94.5/5.5 respectively. When properly formulated coatings based on CRYLCOAT® 4642-3 can surpass 5 years Florida exposure.

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	1500-2300
Color, b-value	Max. 10
Acid value (mg KOH/g)	32-38

Other Properties

	Typical value
Glass transition (°C)	Approx. 62

Starting Formulation

Component	Weight (%)
CRYLCOAT® 4642-3	66.2
Primid® XL 552	3.5
Titanium dioxide	29.0
MODAFLOW® Powder 6000	1.0
Benzoin	0.3

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	80 ± 5 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on chromate Al panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 180° C metal temperature

Film Properties

Test	Result
Gloss @ 20°/60° (%)	87/93

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.

July 2020 – Supersedes previous versions