

## 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. CRYLCOAT® 4642-3 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 | 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.

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