

### **General Description**

CRYLCOAT® 1557-5 is a carboxyl functional polyester resin for use with epoxy resins in ratios from 50/50 to 60/40 to manufacture hybrid powder coatings. Formulations based on CRYLCOAT® 1557-5 exhibit high reactivity, scratch resistance and good overall properties. CRYLCOAT® 1557-5 can be blended in all ratios with CRYLCOAT® 1544-0 to provide intermediate reactivity.

### **Saturated Polyester Resin**

### **Product Specification**

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	1500-2500
Color, b-value	Max. 15
Acid value (mg KOH/g)	66-76

## **Other Properties**

	Typical value
Glass transition (°C)	Approx. 50

### **Starting Formulation**

Component	Weight (%)
CRYLCOAT® 1557-5	28.5
Epoxy resin (EEW 700-900)	28.5
Titanium dioxide	29.0
Barium sulfate	10.5
ADDITOL® P 896	3.0
Benzoin	0.5

# **Extrusion & Application Conditions**

Extrusion		
Extruder	Twin screw	
Speed	300 rpm	
Torque	70 to 85 %	
Temperature	100 to 110 °C	
Application		
Application	60 micrometer film on 0.5 mm steel panel	
Spray Gun	Output voltage: 60 kV	
Curing	10 min @ 170 °C metal temperature 20 min @ 160 °C metal temperature	

## **Film Properties**

Test	Result
Gloss @ 20°/60° (%)	75/92
Direct/reverse impact (kg. cm or in. lbs.)	160/160

#### **Shelf Life**

Under normal storage conditions (≤25°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.  $\label{eq:continuous}$ 

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