

# **General Description**

CRYLCOAT® 1783-0 is a low reactive, carboxyl functional polyester resin for use with epoxy resins in the production of 70/30 hybrid powder coatings. Formulations based on CRYLCOAT® 1783-0 exhibit very good gloss and flow and can be blended in any ratio with CRYLCOAT® 1770-0 to control reactivity.

# **Saturated Polyester Resin**

# **Product Specification**

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	4200-5800
Color, b-value	Max. 15
Acid value (mg KOH/g)	30-38

#### **Other Properties**

	Typical value
Glass transition (°C)	Approx. 58

# **Starting Formulation**

Component	Weight (%)
CRYLCOAT® 1783-0	39.0
Epoxy resin (EEW 700-900)	18.0
Titanium dioxide	29.0
Barium sulfate	10.5
ADDITOL® P 896	3.0
Benzoin	0.5

# **Extrusion & Application Conditions**

Extrusion		
Extruder	Twin screw	
Speed	250 rpm	
Torque	75 ± 5 %	
Temperature	95 to 105 °C	
Application		
Application	60 micrometer film on steel panel	
Spray Gun	Output voltage: 60 kV	
Curing	10 min @ 200° C metal temperature 20 min @ 180° C metal temperature	

#### **Film Properties**

Test	Result
Gloss @ 20°/60° (%)	86/94
Direct/reverse impact (kg. cm or in. lbs.)	160/160

#### **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.  $\label{eq:continuous}$ 

July 2020 - Supersedes previous versions

companies. © 2020 allnex Group. All Rights Reserved.