#### TECHNICAL DATASHEET

# **Powder Coating Resins**



# CRYLCOAT® 1501-6

(Formerly CRYLCOAT® E 38051)

# **Polyester Resin**

#### **General Description**

CRYLCOAT® 1501-6 is a highly reactive carboxyl functional polyester resin for use in the production of 50/50 hybrid powder coatings. This resin is designed for use with low viscosity epoxy resins and is suitable for the production of coatings at cure temperatures as low as 130° C on MDF substrates. Coatings based on CRYLCOAT® 1501-6 combine good flow with high gloss and chemical resistance.

# **Product Specification**

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 175 °C, mPa.s	4500-6500
Color, b-value	Max. 15
Acid value (mg KOH/g)	64-74

# **Other Properties**

	Typical value
Glass transition (°C)	Approx. 52

# **Starting Formulation**

Component	Weight (%)
CRYLCOAT <sup>®</sup> 1501-6	34.3
Epoxy resin (EEW 700-900)	34.3
Titanium dioxide	30.0
MODAFLOW <sup>®</sup> Powder 6000	1.0
Benzoin	0.4

# **Extrusion & Application Conditions**

Extrusion			
Extruder	Twin screw		
Speed	250 rpm		
Torque	80 ± 5 %		
Temperature	80 °C		
Application			
Application	60 micrometer film on steel panel		
Spray Gun	Output voltage: 60 kV		
Curing	10 min @ 130-140° C metal temperature		

### **Film Properties**

Test	Result
Gloss @ 20/60° (%)	90/100

#### **Shelf Life**

Under normal storage conditions (<25°C), the shelf life of the resin will be 12 months from date of shipment. For product older than 12 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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