

General Description

CRYLCOAT® 1545-6 is a tin-free highly reactive carboxylated polyester resin for use in 50/50 hybrid powder coatings suitable for heat sensitive substrates. Coatings based on CRYLCOAT® 1545-6 exhibit good mechanical properties and physical ageing stability.

(Formerly CRYLCOAT E 04537)

Preliminary Technical Data Sheet

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 175 °C, mPa.s	Approx. 8200
Color, b-value	Max. 20
Acid value (mg KOH/g)	Approx. 72

Other Properties

	Typical value
Glass transition (°C)	Approx. 66

Starting Formulation

Component	Weight (%)
CRYLCOAT® 1545-6	34.3
Epoxy resin (EEW 700-900)	34.3
Titanium dioxide	30.0
MODAFLOW® Powder 6000	1.0
Benzoin	0.4

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	300 rpm
Torque	30 ± 5 %
Temperature	80 to 100 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV
Curing	15 min @ 130° C metal temperature

Film Properties

Test	Result
Gloss @ 20°/60° (%)	85/100
Direct/reverse impact (kg. cm or in. lbs.)	160/160

Shelf Life

Under normal storage conditions ($\leq 30^{\circ}\text{C}$), the shelf life of the resin will be 12 months from date of manufacturing. For product older than 12 months, it is recommended to check the acid value and the viscosity every 6 months.

Safety & Environmental Protection

For more information, please refer to the Material Safety Data Sheet.

July 2020 – Supersedes previous versions