

General Description

CRYLCOAT® 1544-0 is a low reactive carboxyl functional polyester resin for use in the manufacture of 50/50 or 60/40 hybrid powder coatings. CRYLCOAT® 1544-0 is compatible with other carboxyl functional polyester resins and can be blended in all ratios to provide intermediate reactivity and flow.

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	1500-3500
Color, b-value	Max. 15
Acid value (mg KOH/g)	65-75

Other Properties

	Typical value
Glass transition (°C)	Approx. 54

Starting Formulation

Component	Weight (%)
CRYLCOAT® 1544-0	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	75 ± 5 %
Temperature	100 to 110 °C
Application	
Application	60 micrometer film on 0.5mm steel panel
Spray Gun	Output voltage: 60 kV
Curing	20 min @ 190° C metal temperature 10 min @ 210° C metal temperature

Film Properties

Test	Result
Gloss @ 20°/60° (%)	83/95
Direct/reverse impact on steel (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.

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