

General Description

CRYLCOAT®E 04814 is a carboxylated polyester resin for use with HAA hardeners in the production of low gloss powder coatings with a 60° gloss range of approx. 10% to 20%. The resin is superdurable by design, correspondent matte coatings should be checked for outdoor durability. Coatings based on CRYLCOAT®E 04814 exhibit very good mechanical properties, flow and smoothness.

Saturated Polyester Resin

Preliminary Technical Data Sheet

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	Approx. 2340
Color, b-value	Max. 15
Acid value (mg KOH/g)	Approx. 59

Other Properties

	Typical value
Glass transition (°C)	Approx. 58

Starting Formulation

Component	Weight (%)
CRYLCOAT® E 04814	64.1
Primid® XL 552	5.5
MODAFLOW® Powder 6000	0.6
Benzoin	0.7
Titanium dioxide	22.4
Barium sulfate	6.4
Ceraflour® 929	0.3

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	350 rpm
Torque	45 ± 5 %
Temperature	100 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV
Curing	15 min @ 200° C metal temperature

Film Properties

Test	Result
Gloss 60° (%)	10-20
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.

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