



Crylcoat[®] E 04048

Polyester Resin

Preliminary Technical Data Sheet

General Description

Crylcoat[®] E 04048 is a developmental carboxylated polyester resin for use in medium-cure 60/40 hybrid powder coatings. Coatings based on Crylcoat[®] E 04048 exhibit good flow with excellent mechanical properties.

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	Approx. 3500
Color, b-value	Max 15
Acid value (mg KOH/g)	Approx. 50

Other Properties

	Typical value
Glass transition (°C)	Approx. 57

Starting Formulation

Component	Weight (%)
Crylcoat [®] E 04048	36.0
Epoxy resin	24.0
Titanium dioxide	20.0
Blanc fixe	18.6
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 0.5 mm steel panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 190° C metal temperature

Film Properties

Test	Result
Gloss @ 20°/60° (%)	84/94
Direct/Reverse Impact (kg. cm. or in. lbs.)	160/160

Shelf Life

Under normal storage conditions (25°C), the shelf life of the resin will be 12 months from date of manufacture. 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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