CRYLCOAT® 2451-6

Technical Datasheet

General Description

CRYLCOAT® 2451-6 is a low viscosity carboxyl- functional polyester resin for use with TGIC in the production of low bake powder coatings in 93/7 ratio. Coatings based on CRYLCOAT® 2451-6 cured at 10 min x 150°C combine excellent flexibility, adhesion, gloss and film hardness. At 92/8 ratio full cure can be achieved at 15 min at 130°C.

(Formerly CRYLCOAT® E 04521)

Preliminary Technical Data Sheet

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	Approx. 1800
Color, b-value	Max. 15
Acid value (mg KOH/g)	Approx. 40

Other Properties

	Typical value
Glass transition (°C)	Approx. 53

Starting Formulation

Component	Weight (%)
CRYLCOAT® 2451-6	63.1
TGIC	5.5
Titanium dioxide	30
MODAFLOW® Powder 6000	1.0
Benzoin	0.4

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	75 ± 5 %
Temperature	95 to 105 °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 @ 60° (%)	92
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 manufacturing. 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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