

General Description

CRYLCOAT® 4478-0 is a carboxyl functional superdurable polyester resin for use with TGIC in a 93/7 ratio. Formulations based on CRYLCOAT® 4478-0 exhibit good edge coverage and combine good flow with excellent storage stability and outstanding outdoor weathering resistance.

(Formerly CRYLCOAT® E 04788)

Preliminary Technical Data Sheet

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	Approx. 3300
Color, b-value	Max. 15
Acid value (mg KOH/g)	Approx. 32

Other Properties

	Typical value
Glass transition (°C)	Approx. 64

Starting Formulation

Component	Weight (%)
CRYLCOAT® 4478-0	67.5
TGIC	5.0
Titanium dioxide	25.5
MODAFLOW® Powder 6000	1.3
Benzoin	0.7

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	350 rpm
Torque	70 ± 5 %
Temperature	90/110/110 °C
Application	
Application	60 micrometer film on 0.5 mm steel panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200°C metal temperature

Film Properties

Test	Result
Gloss @ 20° / 60° (%)	96 / 99

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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