

General Description

CRYLCOAT® 4679-0 is a carboxyl functional superdurable polyester resin. When cured with 10% Primid® XL 552, coatings based on CRYLCOAT® 4679-0 exhibit excellent outdoor resistance. When dry blended with a powder coating based on CRYLCOAT® 4641-0, a gloss at 60° angle of around 20% can be obtained.

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 175 °C, mPa.s	5000-10000
Color, b-value	Max. 15
Acid value (mg KOH/g)	65-75

Other Properties

	Typical value
Glass transition (°C)	Approx. 63

Starting Formulation

Component	Weight (%)
CRYLCOAT® 4679-0	61.8
Primid® XL 552	6.9
Titanium dioxide	30.0
MODAFLOW® Powder 6000	1.0
Benzoin	0.3

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	300 rpm
Torque	70 to 80 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200 °C metal temperature

Film Properties

Test	Result
Gloss @ 60° (%)	>90
Gloss @ 60° (%), in dry blend with CRYLCOAT® 4641-0 formulation (50/50)	20

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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