

General Description

CRYLCOAT® 4641-0 is a superdurable, carboxyl functional polyester resin for the formulation of powder coatings with Primid® XL-552 in a 97/3 ratio. Coatings based on CRYLCOAT® 4641-0 provide outstanding weather resistance. When dry blended with CRYLCOAT® 4420-0 or CRYLCOAT® 4679-0, a 60° gloss of 30 or 20 % (respectively) can be obtained.

CRYLCOAT® 4641-0 belongs to the ECOWISE™ CHOICE product range for selected applications. (Contact your allnex representative for more information).

Saturated Superdurable Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	3500-5000
Color, b-value	Max. 10
Acid value (mg KOH/g)	18-22

Other Properties

	Typical value
Glass transition (°C)	Approx. 60

Starting Formulation

Component	Weight (%)
CRYLCOAT® 4641-0	66.6
Primid® XL 552	2.1
Titanium dioxide	30.0
MODAFLOW® Powder 6000	1.0
Benzoin	0.3

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
Torque	75 ± 5 %
Temperature	95 to 105 °C
Application	
Application	60 micrometer film on 0.5 mm chromated Al/cold rolled steel panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200° C metal temperature

Film Properties

Test	Result
Gloss @ 60° (%)	>90
Gloss @ 60° (%) matte dry blend with CRYLCOAT® 4420-0 (50/50)	30
Gloss @ 60° (%) matte dry blend with CRYLCOAT® 4679-0 (50/50)	20
Reverse impact on steel (kg cm or in-lbs)	< 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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