

General Description

CRYLCOAT® 4890-0 is a hydroxyl functional superdurable polyester resin for use with blocked isocyanates or uretdiones in the production of powder coatings. Coatings based on CRYLCOAT® 4890-0 exhibit superior outdoor durability. CRYLCOAT® 4890-0 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	4000-6000
Color, b-value	Max. 15
Hydroxyl value (mg KOH/g)	25-35

Other Properties

	Typical value
Glass transition (°C)	Approx. 58

Starting Formulation

Component	Weight (%)	
CRYLCOAT® 4890-0	60.9	59.5
Caprolactam-blocked Polyisocyanate (NCO content 15.3 %)	9.1	-
Uretdione (NCO content 13.5 %)	-	10.5
Titanium dioxide	29.0	29.0
MODAFLOW® Powder 6000	0.7	0.7
Benzoin	0.3	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 panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 200° C metal temperature

Film Properties

Test	Result
Gloss @ 60° (%)	90

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.