

General Description

CRYLCOAT® 2839-0 is a hydroxyl functional polyester resin for use with blocked poly-isocyanates or uretdiones in the production of powder coatings. Systems based on CRYLCOAT® 2839-0 exhibit good mechanical, chemical and weathering resistance, good flow, good pigment and filler wetting and excellent appearance in clear powder coatings.

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Hydroxyl value (mg KOH/g)	45-55
Brookfield Viscosity @ 200 °C, mPa.s	5000-6000
Color, b-value	Max. 15
Acid value (mg KOH/g)	≤ 8

Other Properties

	Typical value
Glass transition (°C)	Approx. 57

Starting Formulation

Component	Weight (%)
CRYLCOAT® 2839-0	40.2
ADDITOL® P 932	16.8
ADDITOL® P 896	3.0
Titanium dioxide	29.0
Barium sulfate	10.5
Benzoin	0.5

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	300 rpm
Torque	60 to 70 %
Temperature	100 to 110 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV
Curing (schedule for metal temperature)	ADDITOL® P 932: 10 min @ 200°C ADDITOL® P 965: 10 min @ 180°C Vestagon® BF 1321: 10 min @ 200°C Vestagon® BF 1540: 15 min @ 200°C Crelan® EF 403: 20 min @ 200°C

Film Properties

Test	Result
Gloss @ 20°/60° (%)	81/92
Direct/reverse impact (kg. cm or in. lbs.)	160/160

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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