

General Description

CRYLCOAT® 2818-0 is a hydroxyl functional polyester resin with for use with blocked aliphatic and aromatic isocyanates in the production of powder coatings. CRYLCOAT® 2818-0 is also suitable for use with poly-anhydride hardeners like BECKOPOX™ EH 694 to obtain high Tg, thermal resistant coatings.

Saturated Polyester Resin

Product Specification

	Limits
Appearance	Pale granules
Hydroxyl value (mg KOH/g)	90-110
Brookfield Viscosity @ 200 °C, mPa.s	2500-3500
Color, b-value	Max. 15
Acid value (mg KOH/g)	≤ 3

Other Properties

	Typical value
Glass transition (°C)	Approx. 58

Starting Formulation

Component	Weight (%)	
	CRYLCOAT® 2818-0	34.4
ADDITOL® P 932	27.1	--
BECKOPOX™ EH 694	--	15.4
ADDITOL® P 896	3.0	3.0
Titanium dioxide	25.0	25.0
Barium sulfate	10.0	10.0
Benzoïn	0.5	0.5

Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	300 rpm
Torque	40 to 50 %
Temperature	110 to 120 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV ADDITOL® P 932: 10 min @ 190 °C metal temperature
Curing	BECKOPOX™ EH 694: 10 min @ 190 °C metal temperature

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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