Printing & Packaging

Technical Data Sheet

Joncryl[®] 843

Product Description	Joncryl $^{ m s}$ 843 is a solid flake acrylic resin for industrial hybrid powder coating applications.		
Key Features & Benefits	- Chemical resistance - Hardness - Ultra low gloss - Low-cost epoxy acrylic		
Chemical Composition	Carboxyl functional acrylic resin		
	Properties		
Typical Properties	Appearance Molecular weight Non-volatile Acid number (0.3g in 3A alcohol)	clear flake ~ 7,200 > 98% ~ 215	
	Equivalent weight Softening point (ring and ball) Tg Freeze-thaw stable	275 140°C 86°C Yes	
	These typical values should not be interpre-	ted as specifications.	

Applications

Joncryl[®] 843 is a highly functional, acrylic resin suitable for reaction with bis-phenol A epoxies to generate epoxy/acrylic hybrids. Joncryl[®] 843 produces ultra-low gloss with exceptional chemical resistance and hardness at an extremely low formulated cost. Specifically, the balance of properties obtainable with this system in a low gloss black coating make it particularly suitable for general industrial application areas not requiring exceptional flexibility or appearance, like automotive underbody and wire screen.

Joncryl[®] 843 is recommended for applications such as:

• Interior/exterior general metal powder coating applications



The following starting point formulation is recommended for an initial evaluation of Joncryl[®] 843. Additional optimization of the formulation may be required to achieve desired results for specific applications. This starting point formulation demonstrates ultra-low gloss, outstanding corrosion resistance, and excellent chemical resistance. The exceptional low gloss and cost performance balance makes this a unique system for many industrial and automotive applications.

Joncryl® 843 ACRYLIC HYBRID BLACK, Formula 46-2A

<u>Materials</u>	Parts by Weight
Joncryl [®] 843	16.65
Araldite ¹ GT 7013	39.90
Modaflow ² III	1.00
Benzoin	0.50
Actiron ³ NXJ 60	0.25
Raven ⁴ 5000	0.70
Lancol ⁵ 362D	1.00
barytes	40.00
Total	100.00

Extrusion Parameters (BUSS PLK46)

Zones 1 (kneading screw temperature)	65°C
Zones 2 (jacket temperature)	115 - 120°C
RPM	200

Matte Black Coating Performance Properties

Gloss, 20°/60°	2/5	
Direct impact resistance	160 in/lbs	
Reverse impact resistance	40 in/lbs	
Salt spray (1,250 hrs)		
Creep	2 mm	
Blisters	None	
Adhesion loss	None	

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²Registered trademark of Cytec Technology Corp.

³Registered trademark of Protex International Corporation.

⁴Registered trademark of Columbian Chemicals Corporation.

⁵Registered trademark of Lubrizol Corporation.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Safety Data Sheet All safety information is provided in the Safety Data Sheet for Joncryl[®] 843.

Important

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