

產協企業股份有限公司**CHAN SIEH ENTERPRISES CO., LTD.**

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3F.,90, SEC. 2, NANKING. E. RD. TAIPEI, TAIWAN R. O. C.

Technical Data Sheets

CP2688 SC57**1. INTRODUCTION**

Saturated Polyester Resin

2. FEATURES

Excellent adhesion on metal substrate with good leveling , flexibility and good weather-resistant.

3. APPLICATION

Suitable for bottle cap, stationery box, three-piece can, normal white coating, can printing coating, top/base coat for coil aluminum.

4. CHARACTERISTICS OF THE RESIN

ITEM	UNITE	RESULT
Appearance		Light yellow transparent liquid
Color	(Fe-Co) number	≤ 3 (1)
Solid Contain	% (200 °C/25min)	57±2 (2)
Viscosity	mPa·s in 25 °C	4,000~8,000 (3)
Tg	°C	33 (4)
Fineness	µm	≤ 8
Acid value	mg KOH/g	≤ 6 (5)
OH value	mg KOH/g	35 (6)
Solvent		150# / 100#

(1) ASTM-D-2849 (2) ASTM-D-2369 (3) ASTM-D-1824 (4) DSC(METTLER)

(5) ISO 3682 (6) DIN53240

5. Solvent Solubility

Solvent type	Soluble	Solvent type	Soluble
Ether-Alcohol	O	Ketone	O
Ester	O	Aromatic	O
Aliphatic -alkene	O		

O=Soluble, X=Insoluble

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6. APPELICATION EXAMPLE

Reference formulation for top coat

TiO ₂	60 g	(1)
Polyester CP2688	84 g	(2)
Methylated amino resin (R747)	12 g	(3)
Leveling Additive	0.6 g	(4)
Defoamers	0.2 g	(5)
Mixed solvent	40 g	(6)
Acid catalyst	0.6 g	(7)

(1) CR-828 (Australia) (2) CP2688 by ChanSieh SC:57% (3) R747(4) EFKA-3777

(5) BYK-388 (6) Isophorone 30g+ 150# 10g (7) LDX-1419

Processing

Prepare the while paste, grind TiO₂+CP2688+ mixed solvent for 30 mins., add the curing agent, additive into paste and dispersion by stirring machine, then adjust the viscosity by mixed solvent.

Coating condition

Viscosity (cup #4)	30 ~ 120s
Substrate	Aluminum sheet 150x75x0.35mm

Curing condition

90 second x 224 °C (PMT)

7. FILM TEST RESULT DATA

Film thickness	18~20 μm	
Gloss (60°)	80%	(1)
Hardness(Uni pencil)	2H~3H	(2)
Impact test(1/5 in-1Kg-50cm double side)	Pass	(3)
Cross cut	100/100	(4)
T-bend test	1~2T	(5)
MEK resistance (1Kg)	>100 times	
HCl resistance (5% 72hr)	Pass	
NaOH resistance (2% 24hr)	Pass	
Boil water (100 °C x 2hr)	Pass	

(1)ASTM-D-523 (60°) (2) GB 149 (3) ASTM-D-2194 (4) GB 9286 (5) ASTM-D-4145

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8. PACKING

200Kg / Drum

9. STORAGE

Stored in a cool and dry place with adequate ventilation.

10. SAFETY

Relevant information can be found in the Safety Data Sheet for CP1198