

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

CP1198**1. INTRODUCTION**

Saturated Polyester Resin

2. FEATURES

Excellent adhesion on aluminum substrate with good chemical resistance and impact resistance by it's flexible.

3. APPLICATION

Suitable for can coating, high performance coating for post processing, and top /base coat for indoor architecture paint, appliance coating, coil aluminum.

4. CHARACTERISTICS OF THE RESIN

ITEM	UNITE	RESULT
Appearance		Light yellow transparent Liquid
Color	(Fe-Co) number	≤3 (1)
Solid Contain	%	55±2 (2)
Viscosity	mPa·s in 25 °C	4,000~6,000 (3)
Tg	°C	30 (4)
Fineness	μm	≤8
Acid value	mgKOH/g	≤ 50 (5)
OH value	mgKOH/g	50 (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

The information contained in this technical data sheet is the result of the most up-to-date available in our company. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation. The user must ensure that the information is suitable and complete in relation to the specific use of the product

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6. APPELICATION EXAMPLE

Reference formulation for top coat

TiO ₂	60 g	(1)
Polyester CP1198	88 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	1.0 g	(7)

(1) CR-828 (Australia) (2) CP1198 by ChanSieh SC:55% (3) R747(4) EFKA-3777

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

Processing

Prepare the while paste, grind TiO₂+CP1198+ 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

75 second x 224 °C (PMT)

7. FILM TEST RESULT DATA

Film thickness	18~20 μm	
Gloss (60°)	80%	(1)
Hardness(Uni pencil)	H~2H	(2)
Impact test(1/5 in-1Kg-50cm double side)	Pass	(3)
Cross cut	100/100	(4)
T-bend test	0T	(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