

## TECHNICAL DATA SHEET

## REAFREE® 8598-T

Powder Resins / Saturated Carboxylated Polyester / β-Hydroxyalkylamide

#### PRODUCT APPLICATION DETAILS

Saturated carboxylated polyester for combination with  $\beta$ -Hydroxyalkylamide type hardeners. Suitable for the formulation of outdoor durable and protective tribochargeable thermosetting powders for electrostatic application. For high gloss systems with improved flow and degassing properties. Gas oven stabilised. TMA free type.

#### **SALES SPECIFICATIONS**

	CHARACTERISTICS	METHODS
Acid value	28-34 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	16-26 Pa.s	DIN 53229
Color (50%)	2 max Gardner	ASTM D-1544

#### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (Tg)	approx 58 °C	DSC

The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

## **CURING CONDITIONS**

15 minutes at 180°C (object temperature)

#### **RECOMMENDED MIXING RATIO**

REAFREE® 8598-T / PRIMID XL-552(1): 95/5 REAFREE® 8598-T / PRIMID QM-1260(1): 94,5/5,5 (1) EMS-Chemie AG

#### **MARKET**

#### **Coatings & Inks**

- Industrial Coating
  - General Industry
  - Metal Exterior Powder

#### **PERFORMANCE BENEFITS**

- Excellent flow and degassing properties.
- High gloss.
- Good mechanical properties.
- Excellent outdoor durability.
- Good yellowing resistance curing with direct-fired gas ovens.
- · Tribochargeable.



# REAFREE® 8598-T

#### **FORMULATION GUIDELINES**

	STARTING FORMULATION	
REAFREE® 8598-T	564	
Titanium Dioxide <sup>(1)</sup>	310	
ß-Hydroxyalkylamide <sup>(2)</sup>	29	
REAFREE® F3300-R10	75	
Benzoin	2	
CRAYVALLAC® PC	10	
CRAYVALLAC® WN-1265	10	

<sup>(1)</sup> Kronos® 2160

#### **APPLICATION / EXTRUSION CONDITIONS**

	CHARACTERISTICS
Extruder	BUSS PCS-30
Spraying gun	GEMA PG 1-B
Torque	40 %
Extrusion speed	200 rpm
Application voltage	60-80 kV
Test substrate (Degreased steel)	1 mm
Extrusion temperature	105 °C

### **COATING PROPERTIES**

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	Over 90 %	
Cupping test	Over 8 mm	DIN 53156
Direct impact	Over 80 kg.cm	ASTM D-2794
Reverse impact	Over 80 kg.cm	ASTM D-2794
Conical mandrel	100 %	ASTM D-522
Adhesion	Gt0	DIN 53151

#### **PRODUCT SAFETY**

Please refer to the corresponding Safety Data Sheet.

## **DELIVERY FORM**

Granules. White opaque polyethylene bags of 25 Kg. One Ton pallet shrink – wrapped.

#### **STORAGE AND HANDLING**

The resin in its original unopened bags is stable for more than three years, stored in a dry place at temperature below 30°C. Avoid direct sunlight.

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<sup>(2)</sup> Primid® XL-552 (EMS Chemie)