REAFREE® 4796

POWDER COATINGS / TGIC

TECHNICAL DATA SHEET

Product Application details Saturated carboxylated polyester for combination with Triglycidyl Isocyanurate.

Suitable for the formulation of decorative and protective thermosetting powders for electrostatic application.

Slow curing type.

TMA free type.

Performance Benefits

- Very good flow.
- High gloss.
- Good mechanical properties.
- Excellent outdoor durability.

Polymer Type

Saturated Carboxylated Polyester Resin

Sales **Specifications**

Colour (50%), (ASTM D-1544)	2 max
Acid value, mg KOH/g (ASTM D-1639)	30 - 36
Viscosity 165°C, Pa.s (ICI – DIN 53229)	25 - 40

Other Characteristics¹

Appearance	Pale granules
Glass Transition T, °C (DSC - Tg)	approx 68

¹ The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

Curing Conditions

10 minutes at 200°C (object temperature)

Recommended Mixing Ratio

Formulation

Guidelines

REAFREE 4796 / TGIC: 93/7

Starting Formulation

595
320
45
37
3

Kronos 2160 Araldite PT-810 (Huntsman) / Tepic (Nissan Chemical)

Application / Extrusion Conditions

Extruder: **BUSS PCS-30** Torque: 40% Speed: 200 rpm Extrusion temperature: 80°C Spraying Gun: GEMA PG 1-B Application voltage: 60-80 Kv Test substrate: Degreased

Coating Properties

Film thickness 60-80 microns Over 90% Gloss 60°, (ASTM D-523-60E) Cupping test, (DIN 53156) Over 8 mm Direct Impact, (ASTM D-2794) Over 80 Kg.cm Reverse Impact, (ASTM D-2794) Over 80 Kg.cm

Conical mandrel, (ASTM D-522) 100% Adhesion, (DIN 53151) Gt0



steel 1 mm

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 & The resin in its original unopened bags is stable for more than three years, stored in a dry place at temperature

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Handling

below 30°C. Avoid direct sunlight.

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