

TECHNICAL DATA SHEET

REAFREE® 4760-S

Powder Resins / Saturated Carboxylated Polyester / TGIC

PRODUCT APPLICATION DETAILS

Saturated carboxylated polyester for combination with Triglycidylisocyanurate. Suitable for the formulation of outdoor durable and protective thermosetting powders for electrostatic application. High reactivity with good flexibility. TMA free type.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	30-36 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	12-25 Pa.s	DIN 53229
Color (50%)	2 max Gardner	ASTM D-1544

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (Tg)	approx 60 °C	DSC

¹The 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 160°C (object temperature)

RECOMMENDED MIXING RATIO

REAFREE 4760-S / TGIC : 93/7

MARKET

Coatings & Inks

- Industrial Coating
 - Metal Exterior - Powder

PERFORMANCE BENEFITS

- Non blooming at low temperature curing
- Very good flow for a high reactive type.
- High gloss.
- Excellent outdoor durability.
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REAFREE® 4760-S

FORMULATION GUIDELINES

STARTING FORMULATION	
REAFREE® 4760-S	595
Titanium Dioxide ⁽¹⁾	320
Triglycidylisocyanurate ⁽²⁾	45
REAFREE® F3300-A15	37
Benzoin	3

⁽¹⁾ Kronos® 2160
⁽²⁾ Araldite® PT-810 (Huntsman) / Tepic (Nissan Chemical)

APPLICATION / EXTRUSION CONDITIONS

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

COATING PROPERTIES

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	Over 90 %	ASTM D-523-60E
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
Adhesion	Gt0	DIN 53151

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