

TECHNICAL DATA SHEET

REAFREE® 4762

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 type for general industry applications. TMA free type.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	30-36 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	23-35 Pa.s	DIN 53229
Color (50%)	2 max Gardner	ASTM D-1544

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (T _g)	approx 62 °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® 4762 / TGIC: 93/7

MARKET

Coatings & Inks

- Industrial Coating
 - General Industry
 - Metal Exterior - Powder

PERFORMANCE BENEFITS

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

REAFREE® 4762

FORMULATION GUIDELINES

STARTING FORMULATION	
REAFREE® 4762	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 speed	200 rpm
Application voltage	60-80 kV
Test substrate (Degreased steel)	1 mm
Extrusion temperature	80 °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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