

**maple<sup>®</sup> FL-2007**  
**TGIC Polyester Resin**

**TECHNICAL DATA SHEET**

**Version : 2022**

**General Description**

FL-2007 is a carboxyl functional polyester resin for combination with TGIC at 93/7

- Superior outdoor durability
- Excellent mechanical
- Low bake resins

**Extrusion&Application Conditions**

| Extruder           | Twin screw        |
|--------------------|-------------------|
| Temperature ( °C ) | 100-110           |
| Speed ( rpm )      | 250               |
| Application        | 0.5mm steel panel |
| Curing-metal temp. | 160°C/10-15min    |

**Product Specification**

| Property                            | Range         | Test Method      |
|-------------------------------------|---------------|------------------|
| Appearance                          | Pale granules | Visual           |
| Color(Pt-Co)                        | ≤200          | GB/T9282.1-2008  |
| Acid value mgKOH/g                  | 32-38         | GB/T6473-2008    |
| Viscosity Brookfield, @ 200°C,mPa.s | 3500-5000     | GB/T9751.1-2008  |
| Tg ,°C                              | Approx 60     | GB/T19466.1-2004 |

**Film Properties**

| Test                           | Result | Test Method      |
|--------------------------------|--------|------------------|
| Film thickness ( μm )          | 55-75  | GB/T13452.2-2008 |
| Gloss @ 60° ( % )              | ≥87    | GB/T9754         |
| Direct/reverse impact ( Kg.cm) | 50/50  | GB/T1732-1993    |

**Starting Formulation**

| Component        | Weight/g |
|------------------|----------|
| FL-2007          | 564      |
| TGIC             | 42       |
| Titanium dioxide | 383      |
| Flow agent       | 8        |
| Benzoin          | 3        |

**Package**

White opaque polyethylene bags of 25kg

**Shelf Life**

The shelf life of the resin will be one year.  
 Stored in a dry place at temperature below 30°C  
 Avoid direct sunlight.

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