

**Type: Saturated Polyester Resin, Carboxylated**

**PCR 959** is a low reactive carboxyl functional polyester resin for use with TGIC curing agent at a ratio 93/7 for manufacturing polyester powder coatings.

**Delivery Form(s)**

**PCR 959**                                  100 % in pale flake form

**Application(s)**

- Textured (hammer finish, wrinkle & etc.) powder coatings

**Principal Properties**

- Excellent corrosion resistance
- Very Good mechanical properties

**Specifications**

Acid value (ISO 3662):	30 - 38 (mg KOH/ gr)
Viscosity @ 200 °C:	3000 - 4500 m.Pa.s
Color, 50 % in DMF (ASTM D 1544-80):	3 max.
Density @ 20 °C:	1.2 ± 0.1 gr/cm <sup>3</sup> approx.
Glass transition temperature, °C:	60 (ASTM D3418-08)

**Storage**

Up to 12 months and should be stored in the original, unopened and undamaged packing in a dry place (5 – 30°C), and avoided to exposure from direct sunlight and heat sources.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantees or warranties are given for this technical advice. As a result, the application, the use and the processing of our products and the products manufacture by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. It is recommended that the consumers should evaluate the formulations in their own labs prior to production.

**Recommended Start Formulation & Application Condition**

**Start Formulation**

PCR 959	549.7
TGIC	41.3
TiO <sub>2</sub> (Cristal 128)	197.00
Blank Fix	197.00
Benzoin	5.00
Resinflow (Worlee PV 88)	10.00
<b>Total</b>	<b>1000.00Kg</b>

**Application Condition**

- **Extruder:** Twin screw with 500rpm and temp. at around 105 – 115 °C
- **Application:** 60 µm on 0.8 mm steel plate.
- **Curing:** 10 min. @ 200 °C

**Film Properties**

- **Gloss @ 60 (%)>** 92
- **Direct Impact (kg/cm)** 160
- **Indirect Impact (kg/cm)** 160

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantees or warranties are given for this technical advice. As a result, the application, the use and the processing of our products and the products manufacture by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. It is recommended that the consumers should evaluate the formulations in their own labs prior to production.