

**Type: Saturated Polyester Resin, Carboxylated**

PCR 939 is a low reactive & TMA free carboxyl functional polyester resin for use with epoxy resins EEW 700-800 at a ratio 70/30 for manufacturing hybrid powder coatings.

Delivery Form(s)

PCR 939 100 % in flake form

Application(s)

- General industries
- Interior decorative with good appearance

Principal Properties

- Very good gloss & flow
- Very good mechanical properties
- Good UV resistance compare to other hybrids
- Very good leveling

Specifications

Acid value (ISO 3662):	30 - 40 (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 gr/ cm ³ approx.
Glass transition temperature, °C:	52 (ASTM D3418-08)
Gel Time @ 180°C (Second):	930 approx. (ASTM D4217)

Storage

Should be stored in the original, unopened and undamaged packing in a dry place (5 up to 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 939	413.00
Epoxy Resin (Razeen SR-5014)	177.30
TiO ₂ (Cristal 128)	197.00
Blank Fix	197.00
Benzoin	5.00
Resinflow (Worlee PV 88)	10.00
Total	1000.00 Kg

Application Condition

- **Extruder:** Twin screw with 500rpm and temp. at around 95 – 105 °C
- **Application:** 60 µm on 0.8 mm steel panel.
- **Curing:** 10 min. @ 200 °C

Film Properties

- **Gloss @ 60 (%)** 90
- **Direct Impact (kg/cm)** 160
- **Indirect Impact (kg/cm)** 160

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