POLY RESIN Co.

Technical Data Sheet

PCR 925

Date of Issue: May. 2017

Type: Saturated Polyester Resin, Carboxylated

PCR 925 is a low reactive carboxyl functional polyester resin for use with epoxy resins EEW 700-800 at a ratio 55/45 for manufacturing hybrid powder coatings.

Delivery Form(s)

PCR 925	100 % in flake form

Application(s)

- Texture powder coatings (hammer, leather & etc.)
- Matt & semi matt coating
- Low cost industrial coating

Principal Properties

- Good mechanical properties
- Very economical grade

Specifications

Acid value (ISO 3662):	55 - 65 (mg KOH/ gr)
Viscosity @ 200 °C:	900 - 2000 m.Pa.s
Color, 50 % in DMF (ASTM D 1544-80):	3 max.
Density @ 20 °C:	1.2 ± 0.1 gr/cm^3 approx.
Glass transition temperature, °C:	51 (ASTM D3418-08)
Gel Time @ 180°C (Second):	340 approx. (ASTM D4217)

Storage

Up to 12 month 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.

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Recommended Start Formulation & Application Condition

Start Formulation

PCR 925	325.00
Epoxy Resin (Razeen SR-5014)	266.00
TiO2 (Cristal 128)	197.00
Blank Fix	197.00
Benzoin	5.00
Resinflow (Worlee PV 88)	10.00
Total	**1000.00Kg**

Application Condition

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

Film Properties

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

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