POLY RESIN Co.

Technical Data Sheet

PCR 953

Date of Issue: May. 2017

Type: Saturated Polyester Resin, Carboxylated

PCR 953 is low reactive, carboxyl functional polyester for use with TGIC curing agent at the ratio 93/7 for manufacturing polyester powder coatings.

Delivery Form(s)

PCR 953	100 % in flake form

Application(s)

- Outdoor general industrial powder coatings
- Texture powder coatings

Principal Properties

- Excellent Gloss
- Good Leveling
- Good mechanical properties even at high thickness (90 – 100 µm)
- Outdoor durability

Specifications

Acid value (ISO 3662):	30 - 40 (mg KOH/ gr)
Viscosity 100% @ 200 °C:	3000 – 5000 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:	64°C
Gel Time @ 180°C (Second):	425

Storage & Shelf Life

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 hest sources.

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Recommended Start Formulation & Application Condition

Start Formulation

PCR 953	549.00
TGIC	41.30
TiO2 (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 105 – 115 ˚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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