

# SIRALES<sup>®</sup> PE 8223 BS

## PRODUCT DATA SHEET

RS/8223/129701/1

### Description

Carboxylated polyester resin suitable for HYBRID powder coatings.

### Applications

Sirales PE 8223 is suggested in combination 60/40 and/or 50/50 p.b.w. with EPOSIR 7168 PG or EPOSIR 7175 PG, to manufacture powder coatings with high reactivity combined with both good mechanical and appearance properties. SIRALES PE 8223 BS, for the particular filtration technology used for its production is suitable for manufacturing of powder coatings for low thickness applications, 30÷50 µm.

### Curing cycles (real time)

12 min. at 160°C

20 min. at 150°C

### Sales specification

Property	Value	Unit	Method
Acid number	60 - 70	mg KOH/gr	SIR 103281
Viscosity at 200°C (ICI cone plate)	2400 - 4400	m.Pa.s.	SIR 10391
Colour (1)	3 max.	Sc. Gardner	ASTM D 1544

(1) Determined on 50% m/m solution on dimethylformamide.

### Typical Properties

Property	Value	Unit	Method
Glass transition temperature (2)	54	°C	ASTM D 3418

(2) Determined on DSC (Perkin Elmer series 7) : 20°C/minute.

### Supply Form

Product is available as irregular flakes packed in 25 kg Polyethylene bags.

### Storage stability

The product should be stored in the original bags kept tightly closed, away from sunshine and heat sources. Under these conditions and at a normal temperature (20°C) the resin should have a stability of one year.

### Safety

The product is not flammable and no toxic effect has been determined.

Further information are provided in the relevant safety data sheet.

SIRALES<sup>®</sup>: SIR INDUSTRIALE registered trade mark.

N.B.: The data given in this brochure do not constitute characteristic properties of the single product.

To our best knowledge, the information contained in this brochure is accurate and corresponds to the truth.

However, any recommendations or suggestions are provided without any guarantee, since the conditions in which the products are used are not under our control. Furthermore, nothing contained in this brochure shall be interpreted as a recommendation for using the product in violation of any patents relating to the material and their uses.

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## APPLICATION DATA

### Typical formulation

SIRALES PE 8223	330
EPOSIR 7168 PG	198
EPOSIR 7170 PGF-10	80
BENZOIN	5
KRONOS 2310	287
Blanc Fixe F	100

### Extrusion condition

Extruder	BUSS PLK 46
Casting temperature	100°C
Screw temperature	Cold
Speed	80 - 120 rpm

### Film properties (curing cycle 12 min. at 160°C; 20 min. at 150°C real time)

Film thickness	60-100µm
Indentation (DIN 53156)	> 9 mm
Direct gardner impact (ASTM D 2794)	> 10 Nm
Reverse gardner impact (ASTM D 2794)	> 10 Nm
Mandrel bend resistance (ASTM D 522)	pass

### Formulation for domestic appliance

SIRALES PE 8231	300
EPOSIR 7175 PG*	300
KRONOS 2310	196
HYDROCARB (Omya)	196
BYK 360/P	11
BENZOIN	3

### Extrusion condition

Extruder	BUSS PLK 46
Casting temperature	100°C
Screw temperature	Cold
Speed	80 - 120 rpm

\* or EPOSIR 7168 PG

### Curing cycle: 15 min. at 200°C; 20 min. at 180°C (real time)

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