

SIRALES[®] PE 7810

PRODUCT
DATA SHEET
RS/048/071503/1

Description

Carboxylated polyester resin, free from trimellitic anhydride, suitable for outdoor powder coatings.

Applications

Sirales PE 7810, in combination with HAA hardeners (ratio 95/5), makes achievable a powder coating durable for outdoor purposes featuring a very good flow as well as mechanical and weather resistance properties, a low yellowing and a high resistance to overbaking.

Curing cycles (real time)

10 min. at 200°C ; 15 min. at 180°C ; 20 min. at 160°C.

Sales specification

Property	Value	Unit	Method
Acid number	30 – 38	mg KOH/gr	SIR 10328
Viscosity ICI at 200°C	2750 – 4750	mPa.s	SIR 10391
Colour (1)	3 max.	Sc. Gardner	ASTM D 1544

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

Typical Properties

Property	Value	Unit	Method
Glass transition temperature (Tg)	61	°C	ASTM D 3418

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 (25°C max), 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[®] Prosid[®]: 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 7810	570
PROSID 411	30
BYK 360/P	12
BENZOIN	2
KRONOS 2310	400

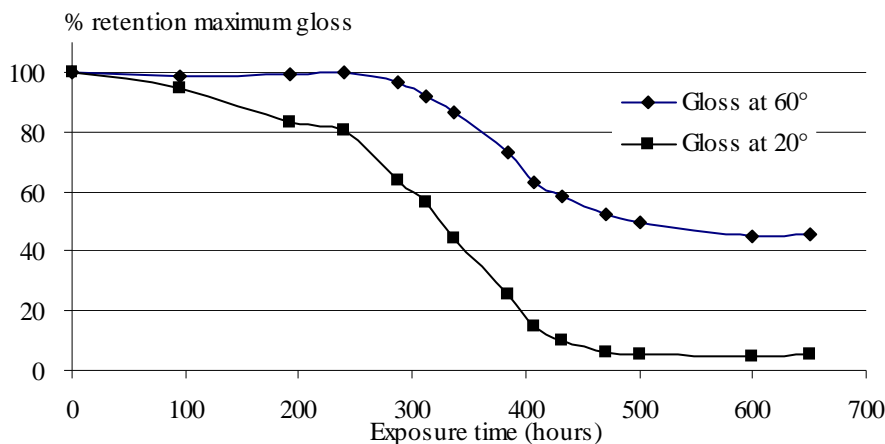
Extrusion condition

Extruder	BUSS PLK 46
Casting temperature	120°C
Screw temperature	Cold
Speed	120 - 140 rpm

Film properties (curing cycle 10 min. at 200°C; 15 min. at 180°C; 20 min. at 160°C real time)

Film thickness	50-90µm
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

QUV exposure test



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