SIRALES® PE 7322

PRODUCT DATA SHEET RS/162/051502/1

Description

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

Applications

Sirales® PE 7322, in combination with TGIC (ratio 93/7), makes achievable a powder coating durable for outdoor purposes featuring high weather resistance, very good flow and gloss and very good mechanical properties. The powder coatings prepared with it show an excellent storage stability.

Curing cycles (real time) 15 min. at 200°C 20 min. at 180°C

Sales specification

~ ·			
Property	Value	Unit	Method
Acid number	30 38	mg KOH/gr	SIR 10328
Viscosity at 200°C (ICI cone plate)	3500 - 5500	MPa.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⁾	66	$^{\circ}\mathrm{C}$	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 informations are provided in the relevant safety data sheet.

SIRALES ®: 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.

SIRALES® PE 7322

APPLICATION DATA RS/162/051502/1

Typical formulation pbw

SIRALES PE 7322	558
ARALDIT PT 810	42
BYK 360/P	10
BENZOIN	4
KRONOS 2310	390

Extrusion condition

Extruder	BUSS PLK 46
Casting temperature	120°C
Screw temperature	Cold
Speed	110-130 rpm
_	_

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

Thin properties (curing cycle 15 min. at 200°C, 20 min. at 100°C rear time)		
Film thickness	60-100μm	
Identation (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	
Accelerated weathering resistance: QPanel Al36, QUV with lamps UVB 313, 4 hrs. light at 50°C + 4 dark condensation hrs. at 40°C to 50% gloss retention, 60° gloss	500 hours	