

### General Product Description

Polyester is available in many colors and is typically used in profiled applications such as warehouses, agricultural constructions, halls and sheds. SSAB's Polyester possesses good weather resistance properties with a smooth surface.

SSAB color coated products comply with current REACH regulations and are fully free of chromates. Color coated products are all manufactured according to EN 10169 + A1.

### Technical Properties

Technical Properties	Regular
Gloss	35
Minimum inner bending radius	3 x sheet thickness
Scratch resistance	20N
UV radiation resistance	R <sub>UV</sub> 2-3
Corrosion resistance*	RC3
Stain resistance	Satisfactory
Highest operating temperature	90 °C
Fire classification, EN 13501-1	A1
Coating thickness, nominal (primer + top coat)	25 µm
Coating structure	Smooth
Steel designation**	S280GD-S350GD, DX51D
Zinc coating	275 g/m <sup>2</sup>
Min steel thickness**	0.42 mm
Steel width**	1000 - 1500 mm

\* Classification into corrosion resistance categories is based on blistering, delamination and damage on bend of the coating after two years exposure in natural outdoor testing sites as specified in EN 10169.

\*\* Maximum steel thickness is 1.5 mm and maximum steel width depends on steel thickness. For other steel dimensions or steel grades please contact SSAB Tech Support.

## Colors

Below are the colors currently available. Other colors can be agreed upon separately.

Colors	
Frost White - RR106 / SS0009	x
Nordic White - RR1H3 / SS0020	x
Winter White - RR20 / SS0005	x
White - RR--- / SS0010	x
White - RR135 / SS0248	x
White - RR1G5 / SS0109	x
White - RR1G6 / SS----	x
Fog White - RR143 / SS----	x
White - RR1L4 / SS0078	x
Limestone Grey - RR268 / SS0022	x
Cloud Grey - RR2B1 / SS----	x
Pebble Grey - RR21 / SS0011	x
Stone Grey - RR22 / SS0554	x
Rock Grey - RR237 / SS0061	x
Grey - RR2J9 / SS5036	x
Anthracite Grey - RR2H8 / SS0087	x
Mountain Grey - RR23 / SS0036	x
Ridge Grey - RR2F7 / SS0035	x
Cliff Grey - RR288 / SS0455	x
Slate Grey - RR2H3 / SS0534	x
Nordic Night Black - RR33 / SS0015	x
Walnut Brown - RR32 / SS0387	x
Chestnut Brown - RR887 / SS0435	x
Hazelnut Brown - RR8H2 / SS0426	x
Acorn Brown - RR827 / SS0434	x
Cottage Red - RR29 / SS0758	x
Tile Red - RR750 / SS0760	x
Brick Red - RR7F2 / SS0742	x
Red - RR786 / SS5415	x
Harvest Yellow - RR24 / SS0189	x
Silver Fir Green - RR5J3 / SS0975	x
Leaf Green - RR594 / SS0874	x
Pine Green - RR11 / SS0830	x
Lake Blue - RR35 / SS0558	x
Metallic Silver - RR946 / SS----	x
Metallic - RR947 / SS----	x

Note for Metallic colors: To ensure tonal consistency of colors on a single exterior face, all material must come from the same production batch. Also the directionality of surfaces has to be consistent especially when sheets are cut to size.

## Reverse Side Coating

Unless otherwise specified, the reverse side of the sheet is painted with a two-layer coating to further improve the corrosion resistance of the end product. The coating provides good adhesion properties to many adhesives and foams; nevertheless the compatibility needs to be tested case-specifically.

Technical Properties	
Nominal Coating Thickness (primer + top coat)	12 µm
Color	Grey
Corrosion resistance	Min CPI3

For easy material identification the reverse side of the sheet is stamped with e.g. the SSAB logo and the product name. The production year is marked to ease material traceability and can be referred to within the guarantee period. An arrow shows the direction of production to ensure installation in a uniform direction.

## Double Sided Products

Polyester is also available as a double sided product. However, different sides of the sheet cannot be mixed due to the possibility of a visual difference. The reverse side may show wider variation in color and gloss.

## Protective Film

Temporary protective films are available for protection during processing and installation. Protective films are applied on the top side of the Product. Films will be centered to the strip meaning that typically there are small unprotected areas in both edges of the strip. Unprotected area may be cut away if customer so wishes. Joined film strip ends are marked with red tape on the edge of the Product.

Products with protective film should be stored in dry and warm conditions, since the adhesion between protective film and color coating decreases both in high and low temperatures. Humidity changes also the adhesion properties and in worst case leaves the adhesive part of the film on the Product surface.

Adhesion of protective film increases over time, eventually making it difficult to remove the film from the Product's surface. Due to that, protective film is recommended to be removed from the material as soon as possible, but no later than six months from the manufacturing of the Product or after one month from the end product installation depending on which comes first.

Protective film decreases friction between coil windings, which creates a high risk of coil collapsing on thin gauge coils. Due to the risk of collapsing, SSAB does not recommend protective films for steel nominal thickness  $\leq 0,60$  mm. If protective film is essential, following precautions must be taken to minimize the risk of collapsing: Max coil weight < 5 tons and self-supporting coil protection shields must be used in the package.

Typical protective film thickness is around 45µm, max working temperature +80°C and max and min stripping temperatures +40°C & -10°C.

Protective film has a good resistance to forming but is susceptible to cuts. When working with material with a protective film, clean tools that do not damage the film, and appropriate methods are to be used. Cutting fluids are not needed because the film protects the material surface and reduces friction. Cutting fluids may also have negative impact on the protective film and its adhesion.

Protective films can be recycled as plastics, combusted or disposed via the municipal waste management system depending on the local waste management guidelines and regulations.

## Contact Information

[www.ssab.com/contact](http://www.ssab.com/contact)