

# PARADIENE 20 SA P



## Commercial Product Data Sheet

### Product Description

Paradiene 20 SA P is a high performance, self-adhesive, SBS-modified bitumen base ply specifically designed for use in Parapro roof membrane systems. Paradiene 20 SA P consists of a lightweight random fibrous glass mat impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen. The unique top surface is factory coated with a proprietary Syntan acrylic coating. The back surface is coated with a self-adhesive bitumen layer specifically formulated for optimum adhesion in low-slope membrane applications, and it is lined with a high strength polyolefin release film.

Paradiene 20 SA P is available with Siplast RoofTag RFID roof asset technology on a Special-Made-To-Order basis. See RoofTag Commercial Product Data Sheet for more information.

### Product Uses

Paradiene 20 SA P is designed to be used as a base ply for direct application to approved roof board products, and other approved substrates.

Paradiene 20 SA P is the first ply of all fully adhered Siplast Paradiene 20 SA P/Parapro Roof Systems. It is lapped 3 inches (7.6 cm) on sides and ends. End laps require heat welding. Paradiene 20 SA P is designed for direct application to approved insulations and roof boards, primed structural concrete decks, and other approved substrates. Paradiene P products are approved for a maximum 14 days of exposure prior to Parapro application. The laps of the Paradiene 20 SA P must be heat welded when the material is left exposed 1-14 days prior to application of the specified finish ply of Parapro Roof Membrane. Contact Siplast for specific approval on other product uses.

### Product Approvals

Paradiene 20 SA P is approved by FM Approvals for use as a base ply in Siplast Paradiene 20 SA P/Parapro Class 1 insulated steel roof deck constructions and insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

Contact Siplast for specific information regarding FM Class 1 windstorm resistance classifications.

Paradiene 20 SA P is classified by Underwriters Laboratories in cUL<sub>US</sub> approved classification listings and assemblies.

Paradiene 20 SA P meets or exceeds the requirements for ASTM D 6163 Type I, Grade S and CSA A123.23-15 Type A, Grade 1 for SBS modified bituminous sheet materials using glass fiber reinforcements.

Siplast Roof Systems have also received the approval of many regional and local code authorities. Contact Siplast for more information.

### COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	1.0 Square	(9.3 m <sup>2</sup> )	
Coverage Weight Per Square:	Min:	69 lb	(3.4 kg/m <sup>2</sup> )
Roll Length:	Min:	33.5 ft	(10.21 m)
Roll Width:	Avg:	3.28 ft	(1.00 m)
Thickness:	Avg:	102 mils	(2.6 mm)
	Min:	98 mils	(2.5 mm)
Selvage Width:	Avg:	N/A	N/A

Selvage Surfacing: Polyolefin Release Tape

Top Surfacing: Syntan® Acrylic Coating<sup>1</sup>

Back Surfacing: Polyolefin Release Film

Lines: Two laying lines are placed 3 in (76 mm) and 4 in (10.2 mm) from each edge of the material. The line color for this material is blue.

Packaging: Rolls are wound onto a compressed paper tube. The rolls are placed upright on pallets cushioned with corrugated cardboard and are adhered with adhesive at the labels. The top of the palletted rolls is covered with Kraft paper. The palletted material is protected by a heat shrink polyethylene shroud.

Pallet: 41 in X 48 in (104 cm X 122 cm) wooden pallet  
Number Rolls Per Pallet: 25  
Number Pallets Per Truckload: 18  
Minimum Roll Weight: 69 lb (31.5 kg)

Storage and Handling: All Siplast roll roofing products should be stored on end on a clean flat surface. Care should be taken that rolls are not dropped on ends or edges and are not stored in a leaning position. Deformation resulting from these actions will make proper installation difficult. All roofing should be stored in a dry place, out of direct exposure to the elements, and should not be double stacked. Material should be handled in such a manner as to ensure that it remains dry prior to and during installation.

*Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at [www.Siplast.com](http://www.Siplast.com).*

1. Syntan® is a registered trademark of Siplast.

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## Physical and Mechanical Properties

UNITED STATES TEST STANDARDS			CANADA TEST STANDARDS	
Property (as Manufactured)	Values/Units	Test Method	Property (as manufactured)	Test Method CSA A123.23-15 Values/Units
Thickness (minimum)	98 mils (2.5 mm)	ASTM D 5147 section 6	Thickness (minimum)	2.5 mm (98 mils)
Thickness (average)	102 mils (2.6 mm)	ASTM D 5147 section 6	Thickness (average)	2.6 mm (102 mils)
<sup>1</sup> Peak Load @ 73°F (23°C) (average)	30 lbf/inch (5.3 kN/m)	ASTM D 5147 section 7	<sup>1</sup> Peak Load 23°C (73°F) (average)	5.3 kN/m (30 lbf/inch)
<sup>1</sup> Peak Load @ 0°F (-17°C) (average)	75 lbf/inch (13.2 kN/m)	ASTM D 5147 section 7	<sup>1</sup> Peak Load @ -17°C (0°F) (average)	13.2 kN/m (75 lbf/inch)
<sup>1</sup> Elongation @ Peak Load, 73°F (23°C) (average)	3%	ASTM D 5147 section 7	<sup>1</sup> Elongation @ Peak Load, 23°C (73°F) (average)	3%
<sup>1</sup> Elongation @ Peak Load, 0°F (-17°C) (average)	3%	ASTM D 5147 section 7	<sup>1</sup> Elongation @ Peak Load, -17°C (0°F) (average)	3%
<sup>1</sup> Ultimate Elongation @ 73°F (23°C) (average)	50%	ASTM D 5147 section 7	<sup>1</sup> Ultimate Elongation @ 23°C (73°F) (average)	50%
<sup>1</sup> Tear Strength (average)	40 lbf (0.18 kN)	ASTM D 5147 section 8	N/A	N/A
Water Absorption (maximum)	1%	ASTM D 5147 section 10	N/A	N/A
Dimensional Stability (maximum)	0.1%	ASTM D 5147 section 11	Dimensional Stability (maximum)	0.1%
Low Temperature Flexibility (maximum)	-15°F (-26°C)	ASTM D 5147 section 12	Low Temperature Flexibility (maximum)	-26°C (-15°F)
Compound Stability (minimum)	250°F (121°C)	ASTM D 5147 section 16	Compound Stability (minimum)	121°C (250°F)
Cyclic Fatigue	Paradiene 20 SA P, bonded to Parapro Roof Membrane, passes ASTM D 5849 both as-manufactured and after heat conditioning according to ASTM D 5147.		Mass Per Unit Area (minimum)	3.4 kg/m <sup>2</sup> (69 lb/sq)

1. The value reported is the lower of either MD or XD.
2. The High Temperature Stability of the self-adhesive bitumen coating is 212°F (100°C).