

PARADIENE 20 TS SA P



Commercial Product Data Sheet

Product Description

Paradiene 20 TS SA P is a high performance, self-adhesive, SBS-modified bitumen base ply designed specifically for use in Parapro roof membrane systems. Paradiene 20 TS SA P consists of a lightweight random fibrous glass mat impregnated and coated with an elastomeric styrene-butadiene-styrene (SBS) modified bitumen. The unique top surface is factory coated with proprietary Syntan acrylic coating. The back surface design consists of a factory applied Syntan coating combined with self-adhesive stripes, which provides for uniform bonding of 50% of the total surface area of the sheet.

Product Uses

Paradiene 20 TS SA P is the first ply of all semi-adhered Siplast Paradiene 20 TS SA P/Parapro Roof Systems. It is lapped 3 inches (7.6 cm) on sides and ends. End laps require heat welding. Paradiene 20 TS SA P is designed for direct application to approved insulations, Dens-Deck Prime®, primed structural concrete decks, and other approved substrates. Paradiene 20 TS SA P can only be used as a self-adhesive base ply in Parapro Roof Membrane assemblies. Both layers of roofing (Paradiene 20 TS SA P and Parapro) must be applied in the same day. Contact Siplast for specific approval on other product uses.

Product Approvals

Paradiene 20 TS SA P is listed by Underwriters Laboratories in cUL_{us} approved Parapro classification listings and assemblies.

Paradiene 20 TS SA P is approved by FM Approvals for use as a base ply in Siplast Paradiene 20 TS 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.

Siplast Roof Systems also have received the approval of many regional and local authorities. Please contact Siplast for specific information as required.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

1. Syntan® is a registered trademark of Icopal.

COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	1.0 Square	(9.3 m ²)	
Coverage Weight Per Square:	Min:	73 lb	(3.6 kg/m ²)
Roll Length:	Min:	33.5 ft	(10.21 m)
Roll Width:	Avg:	3.28 ft	(1.00 m)
Thickness:*	Avg:	98 mils	(2.5 mm)
	Min:	94 mils	(2.4 mm)
Selvage Width:	Avg:	N/A	N/A
Top Surfacing:	Syntan® Acrylic Coating ¹		
Back Surfacing:	Syntan Acrylic Coating, Adhesive Stripes and Polyolefin Release Film		

Lines: A laying line is placed 3 in (76 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 foiled 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: 20
Minimum Roll Weight: 73 lb (33.1 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.

* Thickness measurement does not include the thickness of the adhesive stripes.

PARADIENE 20 TS SA P

Physical and Mechanical Properties

Property (as Manufactured)	Values/Units	Test Method
¹ Thickness (minimum)	94 mils (2.4 mm)	ASTM D 5147 section 5
¹ Thickness (average)	98 mils (2.5 mm)	ASTM D 5147 section 5
² Peak Load @ 73°F (average)	30 lbf/inch (5.3 kN/m)	ASTM D 5147 section 6
¹ & ² Peak Load @ 0°F (average)	70 lbf/inch (12.3 kN/m)	ASTM D 5147 section 6
² Elongation @ Peak Load, 73°F (average)	3%	ASTM D 5147 section 6
² Elongation @ Peak Load, 0°F (average)	3%	ASTM D 5147 section 6
² Ultimate Elongation @ 73°F (average)	70%	ASTM D 5147 section 6
² Tear Strength (average)	40 lbf (0.18 kN)	ASTM D 5147 section 7
Water Absorption (maximum)	1%	ASTM D 5147 section 9
Dimensional Stability (maximum)	0.1%	ASTM D 5147 section 10
Low Temperature Flexibility (maximum)	-13°F (-25°C)	ASTM D 5147 section 11
³ High Temperature Stability (minimum)	250°F (121°C)	ASTM D 5147 section 15
Coating Thickness - Back Surface (including adhesive stripes)	≥ 40 mils (1 mm)	ASTM D 5147 section 16
Cyclic Fatigue	Paradiene 20 TS SA P, bonded to Parapro Roof Membrane, passes ASTM D 5849 both as-manufactured and after heat conditioning according to ASTM D5147.	

1. Thickness measurement does not include the thickness of the self-adhesive stripes or release film.
2. The value reported is the lower of either MD or XD.
3. The High Temperature Stability of the self-adhesive bitumen coating is 212°F (100°C).