

PARADIENE 20 EG SA



Commercial Product Data Sheet

Product Description

Paradiene 20 EG SA is a high performance, self-adhesive, heavy-duty modified bitumen base ply designed for use in homogeneous multi-layer modified bitumen roof membrane systems. Paradiene 20 EG SA consists of a fiberglass scrim/fiberglass mat composite impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen. 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 EG SA 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 EG SA is designed to be used as a multi-purpose sheet for direct application to primed Paradiene plies with sanded surfaces, approved roof board products, and other approved substrates.

Paradiene 20 EG SA may be utilized as the first ply of the Paradiene 20 EG SA/Paradiene 30 TG multi-layer roof system. It is lapped 3 inches on the side and end. End laps must be heat welded and a torch applied finish layer of Paradiene TG, Veral, or Parafor must be applied in the same day. All laps of the Paradiene 20 EG SA must be heat welded when the Paradiene TG or Parafor TG over-layer is not installed during the same day's application. Contact Siplast for specific approval on other product uses.

Product Approvals

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

Paradiene 20 EG SA is classified by Underwriters Laboratories as an acceptable substitute for Paradiene 20 TG in all cUL_{us} classification listings and assemblies. Paradiene 20 EG SA has been tested by FM Approvals for wind uplift resistance in various constructions. Contact Siplast for specific approvals.

Paradiene 20 EG SA meets or exceeds the requirements for ASTM D 6163 Type II, 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 ²)	
Coverage Weight Per Square:	Min:	84 lb	(4.1 kg/m ²)
Roll Length:	Min:	33.5 ft	(10.21 m)
Roll Width:	Avg:	3.28 ft	(1.00 m)
Thickness:	Avg:	118 mils	(3.0 mm)
	Min:	114 mils	(2.9 mm)
Selvage Width:	Avg:	3.0 in	(76 mm)
Selvage Surfacing:	Polyolefin Release Tape		
Top Surfacing:	Silica Parting Agent		
Back Surfacing:	Polypropylene Release Tape		

A laying line is placed 3 in (76 mm) from each edge of the material. The laying line 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 palleted rolls is covered with Kraft paper. The palleted 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: 84 lb (38.1 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.

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

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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)	114 mils (2.9 mm)	ASTM D 5147 section 6	Thickness (minimum)	2.9 mm (114 mils)
Thickness (average)	118 mils (3.0 mm)	ASTM D 5147 section 6	Thickness (average)	3.0 mm (118 mils)
¹ Peak Load @ 73°F (23°C) (average)	80 lbf/inch (14.1 kN/m)	ASTM D 5147 section 7	¹ Peak Load 23°C (73°F) (average)	14.1 kN/m (80 lbf/inch)
¹ Peak Load @ 0°F (-17°C) (average)	150 lbf/inch (26.5 kN/m)	ASTM D 5147 section 7	¹ Peak Load @ -17°C (0°F) (average)	26.5 kN/m (150 lbf/inch)
¹ Elongation @ Peak Load, 73°F (23°C) (average)	5%	ASTM D 5147 section 7	¹ Elongation @ Peak Load, 23°C (73°F) (average)	5%
¹ Elongation @ Peak Load, 0°F (-17°C) (average)	4%	ASTM D 5147 section 7	¹ Elongation @ Peak Load, -17°C (0°F) (average)	4%
¹ Ultimate Elongation @ 73°F (23°C) (average)	100%	ASTM D 5147 section 7	¹ Ultimate Elongation @ 23°C (73°F) (average)	100%
¹ Tear Strength (average)	120 lbf (0.54 kN)	ASTM D 5147 section 8	N/A	NA
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)
Coating Thickness - Back Surface	≥ 40 mils (1 mm)	ASTM D 5147 section 17	Coating Thickness - Back Surface	1 mm (≥ 40 mils)
Cyclic Fatigue	Paradiene 20 EG SA, as part of a membrane assembly including any Paradiene 30, Paradiene 40 FR, or Parafor 50 LT cap sheet bonded with an approved method of attachment, passes ASTM D 5849 <i>Evaluating Resistance of Modified, Bituminous Roofing Membranes to Cyclic Fatigue (Joint Displacement)</i> ; both as-manufactured and after heat conditioning according to ASTM D 5147.		Mass Per Unit Area (minimum)	4.1 kg/m ² (84 lb/sq)

1. The value reported is the lower of either MD or XD.