

PARADIENE 20 SA F



Commercial Product Data Sheet

Product Description

Paradiene 20 SA F is a high performance, self-adhesive, modified bitumen base ply designed for use in homogeneous multi-layer modified bitumen roof membrane systems. Paradiene 20 SA F consists of a lightweight random fibrous glass mat impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen. The top surface is covered with a perforated plastic burnoff film. 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 F 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 F is the first ply of all fully adhered Siplast Paradiene 20 SA F/Paradiene 30 TG Systems. Paradiene 20 SA F is also used as a stripping ply for reinforcing details at metal flanges, walls, and curbed penetrations. Extending Paradiene 20 SA F stripping ply onto the top surface of any Paradiene 20 layer requires either removal of the top film surfacing from a film-surfaced Paradiene 20, or priming a sand-surfaced Paradiene 20 using an approved primer.

Paradiene 20 SA F is lapped 3 inches (7.6 cm) on sides and ends. End laps require heat welding. An alternative to the standard end lap method is seaming end joints using a 12-inch (30.4 cm) wide strip of Paradiene 20 TG. Paradiene 20 SA F is designed for direct application to primed structural concrete decks, and other approved substrates. Paradiene 20 SA F is used as a base ply in multi-layer roof systems with a torch applied finish layer of Paradiene TG, Veral, or Parafor. All laps of the Paradiene 20 SA F 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

Paradiene 20 SA F is approved by FM Approvals (FM Standard 4470) for use in Class 1 roof constructions. Contact Siplast for specific information regarding FM Class 1 windstorm resistance classifications.

Paradiene 20 SA F is classified by Underwriters Laboratories as an acceptable substitute for Paradiene 20 TG in all cULus classification listings and assemblies.

Paradiene 20 SA F meets or exceeds the requirements of 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 ²) | |
| Coverage Weight Per Square: | Min: 72 lb | (3.5 kg/m ²) | |
| 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: 3.0 in | (76 mm) | |
| Selvage Surfacing: | Polyolefin Release Tape | | |
| Top Surfacing: | Perforated Polypropylene Film | | |
| Back Surfacing: | Polyolefin Release Film | | |

A laying line is placed 3 in (76 mm) from each edge of the material. The laying line for this material is white.

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: 72 lb (32.7 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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PARADIENE 20 SA F

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) |
| ¹ Peak Load @ 73°F (23°C) (average) | 30 lbf/inch (5.3 kN/m) | ASTM D 5147 section 7 | ¹ Peak Load 23°C (73°F) (average) | 5.3 kN/m (30 lbf/inch) |
| ¹ Peak Load @ 0°F (-17°C) (average) | 75 lbf/inch (13.2 kN/m) | ASTM D 5147 section 7 | ¹ Peak Load @ -17°C (0°F) (average) | 13.2 kN/m (75 lbf/inch) |
| ¹ Elongation @ Peak Load, 73°F (23°C) (average) | 3% | ASTM D 5147 section 7 | ¹ Elongation @ Peak Load, 23°C (73°F) (average) | 3% |
| ¹ Elongation @ Peak Load, 0°F (-17°C) (average) | 3% | ASTM D 5147 section 7 | ¹ Elongation @ Peak Load, -17°C (0°F) (average) | 3% |
| ¹ Ultimate Elongation @ 73°F (23°C) (average) | 50% | ASTM D 5147 section 7 | ¹ Ultimate Elongation @ 23°C (73°F) (average) | 50% |
| ¹ 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 F, bonded to an acceptable Paradiene 30, Paradiene 40 FR, or Parafor 50 LT cap sheet with an approved method of attachment, passes ASTM D 5849 both as-manufactured and after heat conditioning according to ASTM D 5147. | | Mass Per Unit Area (minimum) | 3.5 kg/m ² (72 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).