



PARADIENE® 20 TS F

Commercial Product Data Sheet

Paradiene 20 TS F is the modified bitumen base ply designed for use in homogeneous multi-layer modified bitumen roof membrane systems. Paradiene 20 TS F consists of a lightweight random fibrous glass mat impregnated and coated with an elastomeric styrene-butadiene-styrene (SBS) modified bitumen and is covered with a perforated plastic burn-off film. The unique back surface design consists of factory-applied, heat-activated adhesive stripes combined with a proprietary acrylic coating between the stripes, which provides for uniform bonding of approximately 50% of the total surface area of the sheet.

Contact Siplast for information on approved product uses.

USES: BASE PLY

PRODUCT INFORMATION

Standards	ASTM D6163 Type I, Grade S; CSA A123.23-15 Type A, Grade 2
Roll Length	Min: 33.5 ft (10.21 m)
Roll Width	Avg: 3.28 ft (1.00 m)
Coverage	1.0 Square (9.3 m ²)
Coverage Weight Per Square	Min: 76 lb (3.7 kg/m ²)
Selvage Width	Avg. 3 in (76 mm) White laying line is 3 in (76 mm) from the edge of the sheet.
Selvage Surfacing	Polyolefin Burn-off Film
Top Surfacing	Perforated Polypropylene Film
Back Surfacing	Adhesive Stripes, Acrylic Coating Between Stripes
Product Options	RoofTag

Application

Refer to the Siplast Technical Guide for detailed application information and slope limitations. Paradiene 20 TS F is lapped 3 inches (76 mm) side and end.



Storage and Handling

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

See product packaging and the Safety Data Sheet for specific information on the safe handling of this product.

Packaging

Pallet: 41 in x 48 in (104 cm x 122 cm) wooden pallet
Rolls Per Pallet: 25
Pallets Per Truckload: 20
Minimum Roll Weight: 76 lb (34.5 kg)

U.S. TEST STANDARDS

Property (as Manufactured)	Values / Units	Test Method
*Thickness (minimum)	87 mils (2.2 mm)	ASTM D5147 Section 6
*Thickness (average)	91 mils (2.3 mm)	ASTM D5147 Section 6
**Peak Load @ 73.4°F (23°C) (average)	30 lbf/inch (5.3 kN/m)	ASTM D5147 Section 7
**Peak Load @ 0°F (-18°C) (average)	70 lbf/inch (12.3 kN/m)	ASTM D5147 Section 7
**Elongation @ Peak Load 73.4°F (23°C) (average)	3%	ASTM D5147 Section 7
**Elongation @ Peak Load 0°F (-18°C) (average)	3%	ASTM D5147 Section 7
**Ultimate Elongation @ 73.4°F (23°C) (average)	55%	ASTM D5147 Section 7
**Tear Strength (average)	40 lbf (0.18 kN)	ASTM D5147 Section 8
Water Absorption (maximum)	1%	ASTM D5147 Section 10
Dimensional Stability (maximum)	0.1%	ASTM D5147 Section 11
Low Temperature Flexibility (maximum)	-15°F (-26°C)	ASTM D5147 Section 12
Compound Stability (minimum)	250°F (121°C)	ASTM D5147 Section 16
Coating Thickness – Back Surface	≥40 mils (1 mm)	ASTM D5147 Section 17
Cyclic Fatigue	Paradiene 20 TS F bonded to an acceptable Paradiene 30, Paradiene 40 FR, or Parafor 50 cap sheet, with an approved method of attachment, passes ASTM D5849 both as manufactured and after heat conditioning, according to ASTM D5147.	

*The thickness does not include the thickness of the adhesive stripes.

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

CANADA TEST STANDARDS

Property (as Manufactured)	Values / Units	Test Method
*Thickness (minimum)	2.2 mm (87 mils)	CSA A123.23-15
*Thickness (average)	2.3 mm (91 mils)	CSA A123.23-15
**Peak Load @ 23°C (73.4°F) (average)	5.3 kN/m (30 lbf/inch)	CSA A123.23-15
**Peak Load @ -18°C (0°F) (average)	12.3 kN/m (70 lbf/inch)	CSA A123.23-15
**Elongation @ Peak Load 23°C (73.4°F) (average)	3%	CSA A123.23-15
**Elongation @ Peak Load -18°C (0°F) (average)	3%	CSA A123.23-15
**Ultimate Elongation @ 23°C (73.4°F) (average)	55%	CSA A123.23-15
Dimensional Stability (maximum)	0.1%	CSA A123.23-15
Low Temperature Flexibility (maximum)	-26°C (-15°F)	CSA A123.23-15
Compound Stability (minimum)	121°C (250°F)	CSA A123.23-15
Coating Thickness – Back Surface	≥1 mm (40 mils)	CSA A123.23-15
Mass Per Unit Area (minimum)	3.7 kg/m ² (76 lb/sq)	CSA A123.23-15

*The thickness does not include the thickness of the adhesive stripes.

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