

PARADIENE 40 FR



Commercial Product Data Sheet

Product Description

Paradiene 40 FR is a high performance, modified bitumen finish ply designed for use in hybrid and multi-layer modified bitumen roof membrane systems. Paradiene 40 FR consists of a fiberglass scrim/fiberglass mat composite impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen, and surfaced with ceramic granules.

Product Uses

Paradiene 40 FR is used as a finish ply in multi-layer Paradiene Systems, and as a base flashing material where granule-surfaced flashing sheets are required. Paradiene 40 FR is lapped 4 inches (10.2 cm) at sides and 6 inches (15.2 cm) at ends, and is applied using PA-311 Adhesive or PA-100 Asphalt.

Product Approvals

Paradiene 40 FR is approved by Underwriters Laboratories for use in cUL_{us} Classified Siplast Paradiene 40 FR Roof Systems. Paradiene 40 FR has been classified by Underwriters Laboratories as a Class A roofing system over non-combustible, insulated non-combustible, and insulated combustible decks, and a Class B roofing system over combustible decks.

Paradiene 40 FR meets or exceeds the requirements of ASTM D 6163 Type II, Grade G, and CGSB 37-GP-56M Type 1, Class A, Grade 2 for SBS-modified bituminous sheet materials using glass fiber reinforcements.

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 Canada Web site at www.Siplast.ca.

COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	0.75 Square	(7.0 m ²)	
Coverage Weight Per Square:	Min: 114 lb	(5.5 kg/m ²)	
Roll Length:	Min: 26 ft	(7.92 m)	
Roll Width:	Avg: 3.28 ft	(1.00 m)	
Thickness:	Avg: 154 mils	(3.9 mm)	
Thickness at Selvage:	Avg: 130 mils	(3.3 mm)	
	Min: 126 mils	(3.2 mm)	
Selvage Width:	Avg: 3.75 in	(95 mm)	
Selvage Surfacing:	Silica parting agent		
Top Surfacing:	No. 11 ceramic granules, standard color finishes are Grey #9 and Brown #6. Contact Siplast for other available colors.		
Back Surfacing:	Silica parting agent		
Lines:	A laying line is placed 4 in (10.2 cm) from selvage edge of the material. The line color for this material is orange.		
Packaging:	Rolls are wound onto a compressed paper tube. The rolls are placed upright on ends opposite the selvage 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:	18		
Minimum Roll Weight:	86 lb (39.0 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.

PARADIENE 40 FR

Physical and Mechanical Properties

Property (as Manufactured)	CGSB Test Method	ASTM Test Method
Roll Size	26 ft x 3.28 ft (7.92 m x 1 m)	26 ft x 3.28 ft (7.92 m x 1 m)
Average Total Thickness	N/A	3.9 mm (154 mils)
Thickness at selvage (minimum) (average)	N/A	126 mils (3.2 mm) 130 mils (3.3 mm)
Minimum Weight per Roll	N/A	86 lb (39.0 kg)
Low Temperature Flexibility	-22°F (-30°C)	-13°F (-25°C)
¹ Tensile Strength or Peak Load (average)	935 N/5 cm	80 lbf/in (14.1 kN/m)
¹ Elongation at Peak Load (average)	5%	5%
¹ Ultimate Elongation (average)	80%	80%
Static Puncture	> 10 kg	N/A
Granule Embedment Max avg. loss Max. individual loss	N/A	1.5 grams per sample 2.0 grams per sample
Dimensional Stability (maximum)	0.1%	0.1%

Test methods and tolerances: CGSB 37-GP-56M (1980), ASTM D 5147, and ASTM D 146 (weight)

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