

PARADIENE 20 PR



Commercial Product Data Sheet

Product Description

Paradiene 20 PR is a high performance modified bitumen finish ply designed for use in gravel surfaced, homogeneous multi-layer modified bitumen roof membrane systems. Paradiene 20 PR consists of a fiberglass scrim reinforced/polyester mat composite impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen.

Product Uses

Paradiene 20 PR is the surface ply of the Siplast Paradiene 20/20 PR gravel surfaced roof system, and is lapped 3 inches (7.6 cm) side and end. Paradiene 20 PR can be applied in approved Type IV asphalt or Siplast PA-311 Adhesive. Contact Siplast for specific approval on other product uses.

Product Approvals

Paradiene 20 PR is approved by FM Approvals for use in Siplast Paradiene 20/Paradiene 20 PR and Paradiene 20 HT/20 PR Class 1 insulated steel deck constructions and over insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

Siplast Paradiene 20/20 PR, Paradiene 20 HT/20 PR, Paradiene 20 HV/20 PR, and Paradiene 20 EG/20 PR gravel surfaced roof systems have been classified by Underwriters Laboratories as Class A roofing systems over insulated and non-insulated non-combustible roof decks.

Paradiene 20 PR meets or exceeds the requirements of ASTM D 6164 Type I, Grade S, for SBS-modified bituminous sheet materials using polyester reinforcement.

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.

COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	1.5 Squares	(13.9 m ²)	
Coverage Weight Per Square:	Min: 60 lb	(2.9 kg/m ²)	
Roll Length:	Min: 50 ft	(15.24 m)	
Roll Width:	Avg: 3.28 ft	(1.00 m)	
Thickness:	Avg: 91 mils	(2.4 mm)	
	Min: 87 mils	(2.3 mm)	
Selvage Width:	N/A		
Selvage Surfacing:	N/A		
Top Surfacing:	Silica Parting Agent		
Back Surfacing:	Silica Parting Agent		

Lines: Two laying lines are placed 3 in (7.6 cm) and 4 in (10.2 cm) from each edge of the material. The line color for this material is yellow.

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 foiled 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: 90 lb (40.8 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 20 PR

Physical and Mechanical Properties

Property (as Manufactured)	Values/Units	Test Method
Thickness, (minimum)	91 mils (2.3 mm)	ASTM D 5147 section 5
Thickness, (average)	94 mils (2.4 mm)	ASTM D 5147 section 5
¹ Peak Load @ 73°F (average)	60 lbf/inch (10.5 kN/m)	ASTM D 5147 section 6
¹ Peak Load @ 0°F (average)	115 lbf/inch (20.1 kN/m)	ASTM D 5147 section 6
¹ Elongation @ Peak Load, 73°F (average)	65%	ASTM D 5147 section 6
¹ Elongation @ Peak Load, 0°F (average)	40%	ASTM D 5147 section 6
¹ Ultimate Elongation @ 73°F (average)	60%	ASTM D 5147 section 6
¹ Tear Strength (average)	100 lbf (0.45 kN)	ASTM D 5147 section 7
Water Absorption (maximum)	1%	ASTM D 5147 section 9
Dimensional Stability (maximum)	0.5%	ASTM D 5147 section 10
Low Temperature Flexibility (maximum)	-13°F (-25°C)	ASTM D 5147 section 11
High Temperature Stability (minimum)	250°F (121°C)	ASTM D 5147 section 15
Cyclic Fatigue	Paradiene 20 PR, 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 D5147.	

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