PARADIENE 40 FR TG

Commercial Product Data Sheet

Product Description

Paradiene 40 FR TG is a high performance, torch grade modified bitumen finish ply designed for use in homogeneous multi-layer modified bitumen roof membrane systems. Paradiene 40 FR TG 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. The back surface is coated with a high performance modified asphalt adhesive layer specifically formulated for torch applications. The adhesive layer is manufactured using a special process that embosses the surface with a grooved pattern to provide optimum burnoff of the plastic film and maximize application rates.

Paradiene 40 FR TG 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 40 FR TG is used as a finish ply in multi-layer Paradiene Systems, and as a base flashing where granule-surfaced flashing sheets are required. Paradiene 40 FR TG is lapped 3 inches (7.6) at sides and 6 inches (15.2 cm) at ends, and is applied by torch.

Product Approvals

Paradiene 40 FR TG is approved by FM Approvals (FM Standard 4470) for use in Paradiene 20 TG/40 FR TG Class 1 insulated steel roof deck constructions and insulated and non-insulated concrete roof deck constructions, subject to FM conditions and limitations.

Paradiene 40 FR TG is classified by Underwriters Laboratories for use in UL Classified Paradiene 20 TG/40 FR TG roof systems. Paradiene 20 TG/40 FR TG has been classified by Underwriters Laboratories as a Class A roofing system over non-combustible, insulated non-combustible, insulated combustible decks, and as a Class B roofing system over combustible decks.

Paradiene 40 FR TG is approved by Underwriters Laboratories for use in UL Classified Paradiene 20 TG/40 FR TG roof systems. Paradiene 20 TG/40 FR TG roof systems have been classified as a Class C roofing systems over combustible, non-combustible, and insulated combustible decks.

Paradiene 40 FR TG meets or exceeds the requirements of ASTM D 6163 Type II, Grade G, for SBS modified bituminous sheet materials using glass fiber reinforcements.

Siplast roofing 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:	0.75 Square		(7.0 m²)
Coverage Weight Per Square:	Min:	125 lb	(6.1 kg/m²)
Roll Length:	Min:	25.25 ft	(7.70 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:	3.0 in	(7.6 cm)

Selvage Surfacing: Burn-off Polyolefin Film

Top Surfacing: No. 11 ceramic granules, standard color finishes are #93 Bone White and Cinnamon Brown #65. Contact Siplast for other available colors.

Back Surfacing: Polyolefin Film

Lines: A laying line is placed 3 in (7.6 cm) from selvage edge of the material. The line color for this material is red.

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 palleted rolls is covered with foilized 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: 94 lb (42.6 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.

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PARADIENE 40 FR TG

Physical and Mechanical Properties

Property (as Manufactured)	Values/Units	Test Method
Thickness (average)	154 mils (3.9 mm)	ASTM D 5147 section 6
[1]Thickness at selvage (minimum) (average)	126 mils (3.2 mm) 130 mils (3.3 mm)	ASTM D 5147 section 6
Maximum Load @ 73°F (average)	80 lbf/inch (14.1 kN/m)	ASTM D 5147 section 7
Maximum Load @ 0°F (average)	150 lbf/inch (26.5 kN/m)	ASTM D 5147 section 7
Elongation @ Maximum Load, 73°F (average)	3%	ASTM D 5147 section 7
Elongation @ Maximum Load, 0°F (average)	3%	ASTM D 5147 section 7
Ultimate Elongation @ 73°F (average)	80%	ASTM D 5147 section 7
Tear Strength (average)	120 lbf (0.54 kN)	ASTM D 5147 section 8
Water Absorption (maximum)	1%	ASTM D 5147 section 10
Dimensional Stability (maximum)	0.1%	ASTM D 5147 section 11
Low Temperature Flexibility (maximum)	-5°F (-21°C)	ASTM D 5147 section 12
Granule Embedment Max. avg. loss Max. individual loss	1.5 grams per sample 2.0 grams per sample	ASTM D 5147 section 15
Compound Stability (minimum)	250°F (121°C)	ASTM D 5147 section 16
Coating Thickness - Back Surface	≥ 40 mils (1 mm)	ASTM D 5147 section 17
Cyclic Fatigue	Paradiene 40 FR TG, bonded to an acceptable Paradiene 20 base ply with an approved method of attachment, passes ASTM D 5849 both as-manufactured and after heat conditioning according to ASTM D 5147.	

1. Measured on the selvage edge excluding the granule surfacing.