PARADIENE 20 HT TG

Commercial Product Data Sheet

Product Description

Paradiene 20 HT TG is a high performance torch grade modified bitumen base ply designed for use in homogeneous multi-layer modified bitumen roof membrane systems. Paradiene 20 HT TG consists of a fiberglass scrim/fiberglass mat composite impregnated and coated with high quality styrene-butadiene-styrene (SBS) modified bitumen. The top surface is covered with a perforated plastic burnoff film, and the back surface is coated with a high performance modified asphalt adhesive layer specially 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.

Product Uses

Paradiene 20 HT TG is the first ply of Siplast Paradiene 20 HT TG/30 TG Systems, and is lapped 3 inches (7.6 cm) side and end. Paradiene 20 HT TG is specifically designed for high tensile requirements and for use in conjunction with torchable Siplast Paradiene Roof Systems requiring extended warranties. Paradiene 20 HT TG is torch applied to approved substrates. Contact Siplast for specific approval on product uses.

Product Approvals

Paradiene 20 HT TG is approved by FM Approvals (FM Standard 4470) for use in Siplast Paradiene 20 HT TG/30 TG and Paradiene 20 HT TG/30 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 20 HT TG is approved by Underwriters Laboratories for use in $_{c}UL_{us}$ Classified Siplast Paradiene 20 HT TG/30 TG and Paradiene 20 HT TG/30 FR TG Roof Systems. Siplast Paradiene 20 HT TG/30 FR TG Roof Systems have been classified by Underwriters Laboratories as Class A roofing systems over non-combustible, insulated non-combustible, and insulated combustible decks, and as Class B roofing systems over combustible decks. Siplast Paradiene 20 HT TG/30 TG Roof Systems have been classified as Class C roofing systems over combustible, non-combustible, and insulated combustible decks.

Paradiene 20 HT TG meets or exceeds the requirements of ASTM D 6163 Type II, Grade S, 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 or specific information as required.

COMMERCIAL PRODUCT INFORMATION

Unit:	Roll		
Coverage:	1.0 Square		(9.3 m²)
Coverage Weight Per Square:	Min:	76 lb	(3.7 kg/m²)
Roll Length:	Min:	33.5 ft	(10.21 m)
Roll Width:	Avg:	3.28 ft	(1.00 m)
Thickness:	Avg:	114 mils	(2.9 mm)
	Min:	110 mils	(2.8 mm)
Selvage Width:	N/A		
Selvage Surfacing:	N/A		
Top Surfacing:	Silica Parting Agent		
Back Surfacing:	Polyolefin Film		

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 green.

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 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: 76 lb (34.5 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.

Siplast 1000 E. Rochelle Blvd. • Irving, Texas 75062-3940 • 469-995-2200 • www.siplast.com
In Canada: 201 Bewicke Ave., Suite 210 • North Vancouver, BC V7M 3M7 • Toll Free 1-877-233-2338
Customer Service in North America: Toll Free 1-800-922-8800

An Icopal Group Company

PARADIENE 20 HT TG

Physical and Mechanical Properties

Property (as Manufactured)	Values/Units	Test Method
Thickness (minimum)	110 mils (2.8 mm)	ASTM D 5147 section 5
Thickness (average)	114 mils (2.9 mm)	ASTM D 5147 section 5
[1]Peak Load @ 73°F (average)	80 lbf/inch (14.1 kN/m)	ASTM D 5147 section 6
[1]Peak Load @ 0°F (average)	150 lbf/inch (26.5 kN/m)	ASTM D 5147 section 6
[1]Elongation @ Peak Load, 73°F (average)	5%	ASTM D 5147 section 6
[1]Elongation @ Peak Load, 0°F (average)	4%	ASTM D 5147 section 6
[1]Ultimate Elongation @ 73°F (average)	50%	ASTM D 5147 section 6
[1]Tear Strength (average)	120 lbf (0.54 kN)	ASTM D 5147 section 7
Water Absorption (maximum)	1%	ASTM D 5147 section 9
Dimensional Stability (maximum)	0.1%	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
Coating Thickness - Back Surface	≥ 40 mils (1 mm)	ASTM D 5147 section 16
Cyclic Fatigue	Paradiene 20 HT TG, 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.