

# PA-1000 POLYMER MODIFIED MOPPING ASPHALT



## Commercial Product Data Sheet

### Product Description

PA-1000 is an elastomeric, inter-ply mopping asphalt designed for use with guaranteed Siplast Roof Systems. PA-1000 is modified with SEBS polymers and blended to meet the high performance requirements for Siplast SBS-modified bitumen roof applications. The heat resistant design of PA-1000 lends demonstrably higher performance characteristics than any standard ASTM D 312 product.

### Product Uses

PA-1000 is specifically engineered for use with Siplast Paradiene 20/30, Paradiene 40 FR, and Parafor 50 Roof Systems subject to Siplast specifications. Contact Siplast for specific approval on product use.

### Product Approvals

PA-1000 is formulated to meet or exceed the requirements of ASTM D 6152 for polymer modified roofing asphalts.

### Product Application

All mopping layers of PA-1000 must be total in coverage without breaks or voids. Care should be taken not to exceed Siplast recommended mopping weight of 25 pounds (1.22 kg/m<sup>2</sup>) per ply per square; minimum application temperature 425°F (218°C).

Under cold weather conditions [40°F (4°C) and below including wind chill], special precautions must be taken to ensure that PA-1000 maintains minimum acceptable temperatures at the point of contact with the roofing sheet. PA-1000 must not be overheated to compensate for cold conditions; maximum heating temperature 475°F (246°C). Use of insulated handling equipment is strongly recommended. During application, the PA-1000 should never be applied more than 5 feet (1.5 meters) ahead of the roll, which should be unrolled continuously at a steady pace. Pressure should be kept on the roll at all times to ensure proper embedment. Air pockets beneath the system or between plies are unacceptable. Any such pockets should be "broomed in" immediately while the PA-1000 is hot enough to facilitate a proper bond.

*Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at [www.Siplast.com](http://www.Siplast.com).*

### COMMERCIAL PRODUCT INFORMATION

Coverage: Max: 25 lb/sq (1.22 kg/m<sup>2</sup>)

Unit: Kraft paper mini-carton with metal bottom.  
Approximately 60 lb/unit (25.4 - 27.2 kg)

Packaging: The cartons are stacked two high on pallets and stretch wrapped.

Pallet: 41 in X 41 in (1.04 m X 1.04 m) wooden pallet  
Number Cartons Per Pallet: 32  
Number Pallets Per Truckload: 18  
Shipping Weight Per Carton:  
Approximately 56 - 60 lb (25.4 - 27.2 kg)

Shipping Classification: DOT Class 55

Storage and Handling: All cartons of PA-1000 should be stored upright on a clean, flat surface. All cartons should be stored in a dry place, out of direct exposure to the elements, and should be kept away from excessive heat, fire or open flames. All materials should be handled in such a manner as to ensure that they remain dry prior to and during installation.

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## Specification Conformance

PA-1000 meets or exceeds the requirements of ASTM D 6152, "SEBS Modified Mopping Asphalt Used in Roofing." PA-1000 specification requirements are as follows:

PROPERTY	ASTM D 6152 REQUIREMENTS	PA-1000 SPECIFICATION
Softening Point (ASTM D 36)	185-240°F (85-110°C)	190-220°F (88-104°C)
Softening Point after heat exposure	+/-9°F (5°C)	+/-9°F (5°C)
Flash Point (ASTM D 92)	500°F (260°C) min	500°F (260°C) min
Penetration 77°F (25°C) (ASTM D 5)	20-60 dmm	30-60 dmm
Penetration change after heat exposure	-5 to +12 dmm	-5 to +12 dmm
Solubility (ASTM D 2042)	99% min	99% min
Tensile Elongation (ASTM D 412)	750% min	900% min
Elastic Recovery (ASTM D 412 modified)	80% min	80% min
Low Temperature Flexibility (ASTM D 3111)	Pass at 20°F (-7°C)	Pass at 0°F (-18°C)
Thermosel Viscosity, 450°F (232°C) (ASTM D 4402)	NR	75-250 cp