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Specifications

Number:	SP-350-1
Product:	PolyKlean White
Effective:	05-16-01
Replaces:	NEW
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Specifications for Filter Media, Pads and Rolls, U.L. Class 2:

1.0 SCOPE

This specification covers filter media pads and rolls which are a component of Heating, ventilating and air conditioning systems.

2.0 PURPOSE

The purpose of this specification is to establish performance criteria and identify physical properties that are pertinent and necessary for proper filter performance. Conformance to all items in the specifications is the responsibility of the bidder.

3.0 PERFORMANCE CHARACTERISTICS

3.1 Filters of the size, air flow capacity and nominal efficiency shall meet the following rated performance specifications based on the ASHRAE 52.1-92 test method. Performance tolerance specified in Section 7.4 of the Air-Conditioning and Refrigeration Institute (ARI) Standard 850-93 shall apply to the performance ratings. All testing is to be conducted on filters with a nominal 24" x 24" face dimension.

Nominal Size (Width x Height x Depth)	24x24x1/2	24x24x1	24x24x2
Rated Air Flow Capacity (CFM)	1,200	1,200	1,200
Final Resistance (In W. G.)	0.5	1.0	1.0
Rated Initial Resistance (In W. G.)	0.16	0.20	0.24
Rated Average Arrestance	80-85	90-95	90-95

3.2 The filters shall be approved and listed by Underwriters' Laboratories, Inc. Class 2 when tested according to U. L. Standard 900.

4.0 BID ATTACHMENTS

4.1 One (1) ASHRAE 52.1-1992 test report from an independent, commercially operated test lab or a test lab covered by an ISO 9000 quality/business system with documented operating procedures including an audited calibration system. The filter models tested must be acquired on the open market by the test lab. The supplier shall grant permission to the test lab which conducts the ASHRAE tests to verbally verify the test results to the purchaser on request.

5.0 PHYSICAL CHARACTERISTICS





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Media shall be composed of the following:

5.1 Nominal 1/2" media:

Thickness – 1/2" +/- 1/8" (Note: Due to compression of the media, the thickness of the media may initially be well below that listed. Once the media has been unpacked and installed in the airstream the media should return to its original thickness.)

Media Weight – 4.0 +/- 0.4 oz./sq. yd.

Fiber Composition – 100% 6 denier polyester

Binder Type – Binder to be 25 +/- 3% by weight, PVAc

Color – White

Tackifier – None

5.2 Nominal 1" media:

Thickness – 7/8" +/- 1/8" (Note: Due to compression of the media, the thickness of the media may initially be well below that listed. Once the media has been unpacked and installed in the airstream the media should return to its original thickness.)

Media Weight – 5.6 +/- 0.5 oz./sq. yd.

Fiber Composition – 50% 6 denier polyester and 50% 15 denier polyester, blended

Binder Type – Binder to be 25 +/- 3% by weight, PVAc

Color – White

Tackifier – None

5.3 Nominal 2" media:

Thickness – 1 3/4" +/- 1/8" (Note: Due to compression of the media, the thickness of the media may be well below that listed. Once the media has been unpacked and installed in the airstream the media should return to its original thickness.)

Media Weight – 9.0 +/- 0.9 oz./sq. yd.

Fiber Composition – 50% 6 denier polyester and 50% 15 denier polyester, blended

Binder Type – Binder to be 25 +/- 3% by weight, PVAc

Color – White

Tackifier – None

6.0 PACKAGING AND IDENTIFICATION



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- 6.1 Packaging shall provide adequate protection against damage or deterioration during shipment and allow complete identification of both the filters and the shipping container.
- 6.2 Shipping containers must be marked with the following information:
 - 6.2.1 The name or tradename of the product.
 - 6.2.2 Nominal filter size.
 - 6.2.3 Quantity of filters per carton.
 - 6.2.4 Name of manufacturer.

7.0 APPROVED INTERNATIONAL QUALITY SYSTEM

- 7.1 The manufacturer shall have implemented, or be in process of implementing, an approved international quality system based on ISO 9000 at the facility manufacturing this product.
 - 7.1.1 If manufacturer has implemented an approved international quality system, the manufacturer shall make available documentation showing third party certification of same.
 - 7.1.2 If manufacturer is in process of implementing an approved international quality system, manufacturer shall submit evidence illustrating progress towards compliance. Evidence is defined as a timetable for implementation plus one or more operating procedures.
- 7.2 If requested, manufacturer shall make available their procedures describing the monitoring of their Approved Vendors List (AVL).
- 7.3 If requested, manufacturer shall make available a copy of their Corporate Quality Manual.
- 7.4 Manufacturer shall provide evidence of a corporate quality policy which must be signed by an officer of the company.