BUILDING PRODUCTS PROGRAM

Class: Plumbing – Plastic Piping and Accessories

Customer: UPONOR, INC.
Location: Apple Valley, Minnesota
Northeast Hutchinson, Minnesota

Listing No. P321-5
Effective Date: October 15, 2020
Last Revised: October 15, 2020
Expires: N/A
Website: www.uponor-usa.com

Product(s): PP-RCT Polypropylene Piping, Fittings and Valves.

Standard(s): ASTM E84   *"Standard Test Method for Surface Burning Characteristics of Building Materials".*

Models: PP-RCT Piping
PP-RCT Fittings and Valves

Marking(s): All PP-RCT tubing, connectors, angle stop valves, and other accessories (if sufficient space available) shall be permanently marked with the following content applied to an area that is readily visible after installation:

- Manufacturers name or trademark
- Model Name
- Standard: ASTM E84
- Flame Spread Rating < 25, Smoke Developed Rating < 50
- Nominal Size
- QAI Logo with 'us' indicator on UPONOR PP-RCT pipe products where appropriate.
- Manufacturing Traceability Label - Production date code

Rating(s): **The following outlines the performance of UPONOR PP-RCT pipes, fittings and valves determined in accordance with the noted standards**

ASTM E84 – Surface Burning Characteristics

Products	Limitations	Flame Spread Index	Smoke Developed Index
PP-RCT Pipes PP-RCT Fittings and Valves[1]	Maximum 12-inch nominal diameter with maximum 1-½-inch wall thickness pipe products and accessories, installed with rated ½-inch pipe insulation[2]; No spacing requirements between adjacent runs.	< 25	< 50

Note 1: *Different sizes corresponding to different colors of PP-RCT pipe and accessories are dependent on manufacturer's availability*
Note 2: *List of approved pipe insulation providers:*

The following list of fiberglass insulation types (at minimum thickness of ½") are approved for use with Uponor's PP-RCT pipes, fittings and accessories when installed to maximum sizes outlined in tables above. The insulations noted must be Listed to ASTM C547 by an approved agency and are approved for use at the dimension specified above.

Insulation	Flame Spread Rating	Smoke Developed Index
	(according to ASTM E84 / CAN/ULC S102.2)	
Manson Alley-K Johns Manville Micro-Lok Johns Manville Micro-Lok HP Owens Corning Vapor Wick Owens Corning Fiberglass GLT Pipe and Tank Knauf Earthwool Redi-Klad	< 25	< 50

Note: These products are subjected to limitations as specified above and must be installed in accordance with the manufacturers' instructions. Authorities having jurisdiction should be consulted regarding allowable applications. See manufacturer's listings for other standards listed under QAI certification programs.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI.

No warranty is expressed or implied, and no guarantee is provided that any jurisdictional authority will accept the Listing found herein. The appropriate authorities should be contacted regarding the acceptability of any given Listing.

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