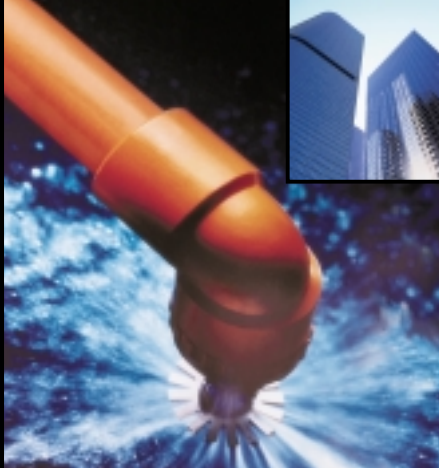


Fire Sprinkler Systems



BlazeMaster[®]
FIRE SPRINKLER SYSTEMS



F I R E S P R I N K L E R S Y S T E M S

BlazeMaster[®] CPVC pipe and fittings are specifically designed for fire sprinkler systems and approved for more applications than any other non-metallic system.

**We build tough products for
tough environments.™**



IPEX
Committed to Excellence

BlazeMaster®

FIRE SPRINKLER SYSTEMS

The new standard in fire sprinkler systems

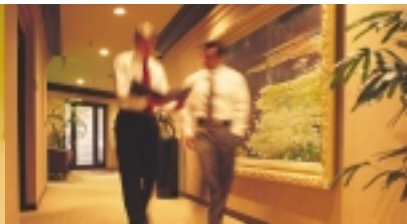
Designed specifically for fire sprinkler systems, IPEX BlazeMaster® pipe and fittings are approved for more applications than any other non-metallic system.

BlazeMaster pipe and fittings are made from post-chlorinated polyvinyl chloride (CPVC) specially formulated for fire sprinkler systems. BlazeMaster pipe and fittings are fully approved for use

in all NFPA 13 Light Hazard applications in both new and retrofit construction including:

- High-rise buildings, including apartments and hotels
- Schools and institutions
- Single-family residences

Manufactured by IPEX, a world leader in thermoplastic piping systems, CPVC has a 40-year history of continuous and proven service.



BlazeMaster pipe and fittings – Approved for more applications than any other non-metallic system

IPEX BlazeMaster CPVC systems exceed ASTM and other industry standards and meet all major building and mechanical codes.

Fully approved for use in all NFPA 13, 13R, 13D Light Hazard applications, BlazeMaster CPVC systems carry the markings of:

- Underwriters Laboratories (UL)
- Underwriters Laboratories of Canada (ULC)
- Factory Mutual (FM)
- Loss Prevention Council (LPC)

BlazeMaster pipe and fittings are listed to meet NSF 61 – Drinking Water System Components – health effects.

BlazeMaster CPVC systems are also permitted for use in:

- Exposed piping installations per NBC 3.2.5.14(2)
- Air plenums per NBC 3.6.4.3(1)(a) and NFPA 90A
- Exposed system risers in accordance with NFPA 13D and 13R
- Exposed solid wood joists in NFPA 13D basement installations
- Garages protected in accordance with NFPA 13R
- Underground water pressure services up to 175 psi

The ideal solution for fire sprinkler systems

BlazeMaster pipe and fittings are ideal for wet automatic fire sprinkler systems with an outstanding combination of features including:

- Easy assembly
- Lightweight construction
- Low friction loss
- No rusting, pitting, scaling or corrosion, even in salt air environments
- Immunity to Microbiologically Influenced Corrosion (MIC)

ASTM



FM



Full field support

IPEX BlazeMaster CPVC systems are backed by an extensive field support organization providing:

- Proven installation recommendations to maximize efficiency and cost savings
- Compliance advice for local, regional and national building codes
- Expert design and specification recommendations



Superior performance, durability and safety

With a high flash ignition temperature, low flame spread and smoke development ratings, and a fuel contribution of 0, BlazeMaster pipe and fittings are an ideal choice for fire sprinkler systems.

BlazeMaster pipe and fittings meet the most stringent requirements governing the use of combustible pipe in most building types. BlazeMaster pipe and fittings have been successfully exposed to flame temperatures of 1400°F. After undergoing continuous elevated pressure testing at 400 psi (more than twice the rated pressure) for more than one year, BlazeMaster CPVC systems showed no sign of weakness or failure.

BlazeMaster pipe and fittings are manufactured under a strict Quality Assurance Program that guarantees consistency and reliability. Pipe and fittings are impervious to normal weather conditions and are fundamentally ageless.

BlazeMaster CPVC systems for designers, architects and engineers

BlazeMaster pipe and fittings offer greatly enhanced design flexibility. With a Hazen-Williams C factor of 150, its smooth inner surface results in lower friction loss than metal systems. This means you can use smaller pipe diameters which lowers your material costs and provides additional design flexibility in retrofit applications.

BlazeMaster pipe and fittings have a 50-year life expectancy with

a safety factor of two. Properly selected and correctly installed, BlazeMaster pipe and fittings provide years of maintenance-free service.

BlazeMaster CPVC systems for builders and developers

BlazeMaster pipe and fittings significantly reduce labor and transportation costs on typical installations because CPVC pipe is easily handled, stored, cut and joined. Prices for BlazeMaster CPVC pipe and fittings are more stable than metal systems. Plus, heavy equipment needed to install metal and other piping systems is not required with BlazeMaster pipe and fittings. As a result, installed costs of BlazeMaster CPVC systems are significantly lower than metal and other systems.

The inherent immunity to Microbiologically Influenced Corrosion (MIC) of BlazeMaster pipe and fittings means this system provides a long-term trouble-free installation. As well, there is significantly less inconvenience for occupants during retrofit construction.

BlazeMaster CPVC systems for contractors

Installation of BlazeMaster pipe and fittings is fast and easy. No special rigging or heavy equipment is required to move the pipe into a building. Pipe can be cut on-site with simple hand tools. A one-step joining system makes installations fast, keeping labor costs to a minimum.

Because no heavy equipment is involved in moving and installing pipe and fittings on-site, there is less conflict with other trades. Work can be done quickly and easily around drywallers, framers and other mechanical contractors.

Most hangers designed for metal pipe are suitable for BlazeMaster CPVC systems. Because BlazeMaster pipe is rigid and inherently strong, it requires fewer hangers and supports than other thermo-plastic pipe, reducing material and labor costs even more.



Fax back to receive a complimentary copy of the BlazeMaster CPVC Technical Manual



For more information or to be included on our mailing list for new product announcements, complete this card and fax it to us at (905) 403-1124.

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- Architect/Design Firm
- Builder/Developer
- Operator/Plant Maintenance
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I would also like to know about other IPEX products:

- Plumbing and mechanical piping systems
- Electrical or telecommunications piping systems
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- Industrial piping systems
- Hydronic radiant heating systems
- Municipal piping systems

www.ipexinc.com

fax: (905) 403-1124

IPEX BlazeMaster® CPVC — the right choice for fire sprinkler systems

BlazeMaster pipe and fittings offer an unparalleled combination of features and support for all Light Hazard construction requirements. Systems are easier and less expensive than metal to install, virtually maintenance-free and cost-effective in both new and retrofit construction. Make the right choice for your project. Choose BlazeMaster pipe and fittings.



**BlazeMaster® Pipe Dimensions and Weights
SDR 13.5 (ASTM F 442)**

Nominal Size		Weight Per Foot (H ₂ O filled)
inches	mm	lbs. (kgs.)
¾	20.0	0.428 (0.637)
1	25.0	0.675 (0.100)
1-¼	32.0	1.079 (1.606)
1-½	40.0	1.417 (2.109)
2	50.0	2.224 (3.310)
2-½	65.0	3.255 (4.844)
3	80.0	4.829 (7.186)

Physical and Thermal Properties of BlazeMaster® CPVC

Property	BlazeMaster CPVC	ASTM Standard
Specific Gravity	1.53	D 792
IZOD Impact Strength (ft.-lbs./inch, notched)	3.0	D 256A
Modulus of Elasticity @ 73°F, psi	4.23 X 10 ⁵	D 638
Ultimate Tensile Strength, psi	8,000	D 638
Compressive Strength, psi	9,600	D 695
Poisson's Ratio	.35 – .38	–
Working Stress @ 73°F, psi	2,000	D 1598
Hazen-Williams C Factor	150	–
Coefficient of Linear Expansion in./in.°F	3.4 X 10 ⁻⁵	D 696
Thermal Conductivity BTU/hr/ft ² /°F/in.	0.95	C 177
Limiting Oxygen Index	60%	D 2863
Electrical Conductivity	Non Conductor	

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Fax (506) 633-8720

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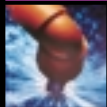
(866) 473-9462 (IPEX INC)

About IPEX

IPEX is a leading supplier of thermoplastic piping systems. We provide our customers with one of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, the IPEX name is synonymous with quality and performance.

Our products and systems have been designed for a broad range of customers and markets. Contact us for information on:

- Plumbing and mechanical pipe systems
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Electrical systems
- Power and communications pipe and fittings
- Irrigation systems
- Radiant heating systems
- PVC, CPVC, PP, ABS, PEX and PE pipe and fittings (1/4" to 48")



WARRANTY: All IPEX products are guaranteed against defects resulting from faulty workmanship or materials. If any such product is found to be defective by reason of faulty workmanship or materials, upon written notice and return of the product, the defective product will be replaced by IPEX free of charge, including shipping charges for the replacement product. Claims for labor costs and other expenses required to replace defective product or to repair any damage resulting from the use thereof will not be allowed by IPEX. Our liability is limited to the price paid for the defective product. IPEX will not be bound by any warranty other than set forth above, unless such warranty is in writing. This literature is published in good faith and is believed to be reliable. However IPEX does not represent and/or warrant in any manner the information and suggestions contained in this brochure. Data presented is the result of laboratory tests and field experience.

IPEX maintains a policy of ongoing product improvement. This may result in modification of features or specifications without notice.

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