XPS PIB

Extruded Polystyrene Pipe Insulation Billet

XPS PIB (extruded Polystyrene Pipe Insulation Billet) is a rigid thermoplastic foam manufactured by a proprietary extrusion process that forms a uniform, void-free, closed cell structure. This structure, along with the naturally water-repellent nature of the polystyrene resin, gives XPS PIB products high compressive strength, low friability and excellent resistance to water vapor and water absorption from freeze-thaw cycling.

XPS PIB is non-dusting and non-irritating and is not a known food source for mold and mildew.

Applications

XPS PIB is used extensively in industrial and commercial piping applications. With a service temperature range of -297°F to 165°F (-183°C to 74°C), XPS PIB is a preferred material for low-temperature systems, both for minimizing heat gain and preventing surface condensation. XPS PIB maintains its key insulating properties in low-temperature applications and other environments with high humidity and high-moisture conditions.

Typical applications for XPS PIB include:
- ammonia refrigeration lines
- freezer rooms
- chilled water piping
- transport pipelines
- cold storage systems
- refrigeration equipment
- pharmaceutical plants
- cryogenic systems

PHYSICAL PROPERTIES

XPS PIB exhibits the properties and characteristics indicated in Table 1 when tested as represented.

Consultation with local code officials and design engineers/specifiers is recommended before application.

As with all cellular polymers, XPS PIB will degrade upon prolonged exposure to sunlight. A covering to block ultraviolet radiation must be used to prevent degradation. Other coverings to protect the insulation from the elements may be required.
ENVIROMENTAL DATA

XPS PIB is manufactured without the use of CFC or HCFC blowing agents. XPS PIB is recyclable and can be reused in many applications.

Availability

XPS PIB is distributed through ITW’s extensive Authorized Fabricator Network. For more information, call: 1-800-231-1024.

Technical Services

ITW can provide technical information to help address questions when using XPS PIB. Technical personnel are available at: 1-800-231-1024.

Installation

XPS PIB is specifically formulated for easy fabrication into many shapes, such as pipe coverings, valve and fitting covers, and others to meet specific design needs. Because of the critical design aspects in many applications, ITW recommends contacting qualified designers for system design. For more specific instructions, contact a local ITW representative or access the literature library at www.itwinsulation.com.

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COMBUSTIBLE: Protect from high heat sources. Local building codes may require a protective or thermal barrier. For more information, consult MSDS, call ITW at 1-800-231-1024 or contact your local building inspector.