About Huntsman

Huntsman Corporation is a publicly traded global manufacturer and marketer of differentiated chemicals with 2016 revenues of approximately $10 billion. Our chemical products number in the thousands and are sold worldwide to manufacturers serving a broad and diverse range of consumer and industrial end markets. We operate more than 100 manufacturing and R&D facilities in approximately 30 countries and employ approximately 15,000 associates within our 5 distinct business divisions including the Pigments and Additives division that we intend to IPO or spin-off as Venator Materials Corporation. For more information about Huntsman, please visit the company’s website at www.huntsman.com.

Fire-rated PIR-based foam technology

Products may be toxic and require special precautions in handling. The user should obtain Safety Data Sheets from Huntsman Polyurethanes and Huntsman Performance Products containing detailed information on toxicity, together with proper shipping, handling and storage procedures, and should comply with all applicable safety and environmental standards. Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent on the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end-users.

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AN EASY-TO-PROCESS, FIRE-RATED PIR-BASED FOAM TECHNOLOGY
Demonstrating progress in panel production and performance

Insulation experts and foam technologists at Huntsman have developed DaltoPIR® XHFR – a fire-rated, PIR-based insulation technology designed to improve the manufacture and performance of composite sandwich panels.

Offering a Bs1d0 rating in Single Burning Item (SBI) tests, across a variety of panel joint designs and thicknesses, DaltoPIR® XHFR-based insulating foam is lightweight and has low thermal conductivity and good moisture resistance properties. With a reaction profile optimized to allow easy foam processing and high production speeds, our DaltoPIR® XHFR foam technology can give panel producers the flexibility to quickly and efficiently manufacture different panel types, of varying thicknesses.

Using our DaltoPIR® XHFR insulation technology, panel producers can achieve:

- Improved foam processing through foam wave stability and flat panel surfaces
- Increased process speeds
- A minimum result of EI 30 in 100 mm panel fire resistance tests and Bs1d0 in SBI tests
- All required physical properties and low lambda values at very competitive densities
- Very good results in commonly known durability tests – even at the highest temperatures tested
- Low smoke emission

DaltoPIR® XHFR foam technology is suitable for use by panel producers looking to pass factory mutual (FM) and loss prevention council (LPC) insurance tests.

Foams based on DaltoPIR® XHFR technology have low friability. The required minimum conveyor temperature is 60°C. The use of a primer (DaltoPIR® PRIM) is required to deliver excellent bottom adhesion and long-term durability. Lambda values can further be improved through the choice of specific blowing agents.

DaltoPIR® XHFR foam technology is part of a wider family of DaltoPIR® fire-rated PIR insulation technologies that have been optimized to meet stringent international fire safety requirements and satisfy the needs of composite panel producers worldwide. The range includes:

- DaltoPIR® FR (medium index PIR)
- DaltoPIR® HFR (high index PIR)
- DaltoPIR® XHFR (high index PIR) with low smoke emission

We also offer panel producers a family of fire-rated and non fire-rated PUR-based foam systems (DaltoPUR®), a range of fire-rated PIR core panel primers (DaltoPIR PRIM®) and adhesives (DaltoSTICK®) for all types of solid insulating cores.

A trusted polyurethane partner for panel producers

With deep knowledge and expertise in sustainable construction, lifecycle analysis and building fire safety, we are a recognized leader in the polyurethane-based insulation market.

A long-established supplier and a trusted partner to the composite panel industry, our research experts, foam technologists and adhesive specialists have a strong commitment to driving progress in panel production and performance.

Working from a technical center in Ternate, Italy, which is dedicated to insulation innovation, our team ensures that our foam and adhesive products are optimized to meet the ever-evolving needs and legislative requirements of the fast-paced composite panel sector, and the global construction industry that it serves.