

Empowering a safer future with flame retardant solutions

New FR8101 cable jacketing offers the highest level of flame retardancy



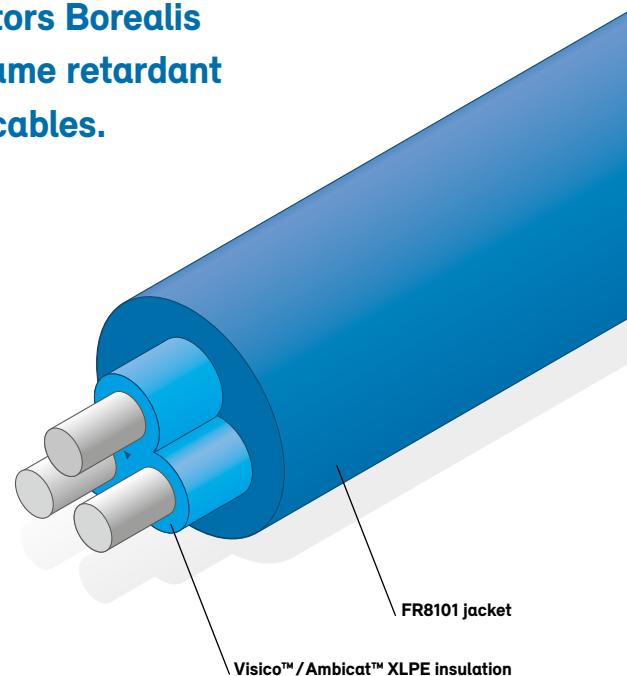
Setting new standards in fire safety, global innovators Borealis and Borouge are proud to launch FR8101, a new flame retardant jacketing grade for highly demanding low-voltage cables.

Traditionally, halogen-free flame retardant (HFFR) cable compounds have restricted manufacturers. Material decomposition during extrusion results in reduced production speed and interference in cable performance.

With the arrival of FR8101, manufacturers will see increased efficiency in both the production process and cable performance, while end users will benefit from a safer environment in the event of a fire.

Improving on existing building fire safety

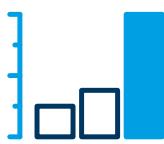
Borealis and Borouge's FR8101 is based on highly flame retardant (FR) hydrate technology, which in the event of a fire, releases water to reduce the rate of fire reaction. FR8101 jacketing is resistant to flaming droplets, which are a major cause of spreading fire in buildings where cables are installed in walls and on roofs. Retaining its shape in immense heat, FR8101 jacketing remains on the cable even when burnt, meaning the spread of fire in this way is prevented and existing fire safety measures are improved.



Combining FR8101 with Borealis' Visico/Ambicat cable eliminates the need to invest in an additional layer of flame retardant insulation, offering manufacturers a complete cable solution from a single provider.

Trusted leaders in FR compounds

Providing various advantages down the value chain, the latest addition to Borealis and Borouge's family of FR products, FR8101:



Offers the highest level of flame retardancy to date, meeting the needs of the most demanding Construction Products Regulation (CPR).



Meets high class C or D in CPR class category, depending on construction.



Bypasses the need for FR bedding or insulation as an additional layer to meet desired fire classification, making it easier to process, and lighter in weight for an improved installation process.



Provides excellent performance, enabling cable makers to run production lines at high speed, overcoming previous limitations in the processing of HFFR cable compounds.

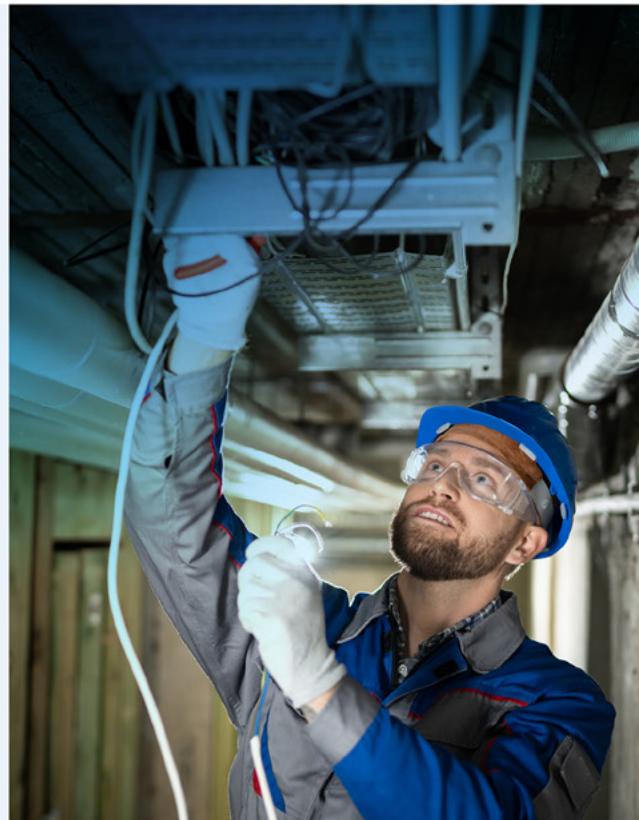
PROPERTY	TYPICAL VALUE	TEST METHOD
DENSITY	1.5 kg/dm ³	ISO 1872-2 / ISO 1183
TENSILE STRENGTH	11 MPa	IEC 60811-501
TENSILE STRAIN AT BREAK	140%	IEC 60811-501
HARDNESS, SHORE D	43	ISO 868
LIMITING OXYGEN INDEX	43	ISO 4589-2

A reliable partner offering robust and sustainable solutions

The EU has recently implemented mandatory CPR regulations on how to classify reaction-to-fire performance in all construction materials, with additional requirements on smoke, dripping and acidity.

As a reliable partner with a visioneering philosophy, Borealis and Borouge are committed to developing innovative and sustainable solutions to meet our customers' needs. By introducing FR8101, we can offer cable makers a simple solution to meet the CPR level requirements while reducing complexity in the production process and retaining cable efficiency and performance.

Transitioning to this grade today provides a solution for cable makers seeking to increase their sustainability standards in terms of health and safety, while contributing to a more protected environment for all.



To find out more, talk to us today
borealisgroup.com/contact

Borealis solutions bring energy all around

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About Borealis Borealis is a leading provider of innovative solutions in the fields of polyolefins, base chemicals and fertilizers. With its head office in Vienna, Austria, the company currently has around 6,600 employees and operates in over 120 countries. Borealis generated EUR 7.5 billion in sales revenue and a net profit of EUR 1,095 million in 2017. Mubadala, through its holding company, owns 64% of the company, with the remaining 36% belonging to Austria-based OMV, an integrated, international oil and gas company. Borealis provides services and products to customers around the world in collaboration with Borouge, a joint venture with the Abu Dhabi National Oil Company (ADNOC). Borealis and Borouge aim to proactively benefit society by taking on real societal challenges and offering real solutions. Both companies are committed to the principles of Responsible Care®, an initiative to improve safety performance within the chemical industry, and work to solve the world's water and sanitation challenges through product innovation and their Water for the World programme.

For more information visit: borealisgroup.com • borouge.com • waterfortheworld.net

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