

Case Study

A Groundbreaking Development in Chemically Foamed Communication Cables



BOREALIS

بروج

Borouge



Introducing the World's first chemically foamed ADCA-free HDPE

In a groundbreaking development for cable manufacturers, Borealis' launch of HE1355 means for the first time there is an ADCA-free material for use as a blowing agent in communication cables.

A safer alternative to ADCA

ADCA (Azodicarbonamide), known to sensitize the respiratory system, has been classified as a Substance of Very High Concern by REACH. Furthermore, in 2019, the European Commission recommended that ADCA should be listed as a chemical that requires authorization for use. The newly introduced HE1355 offers a safer alternative, free from harmful substances and comparable to ADCA in terms of performance.

| | Physical Foaming | Chemical Foaming |
|-------|------------------------|----------------------------|
| Usage | Data Cable & Mini Coax | Foamed Communication Cable |
| MDPE | – | ME1254 |
| HDPE | HE4883 | HE1355 |

Benefits to your business



Bypasses the costly need for ADCA authorization, which takes up to four years.



There is no limit to the length of time HE1355 is authorized for use.



Matches the technical performance of ADCA containing solutions.



Safeguards the cable value-chain against ADCA's harmful effects.

Offering sustainable solutions for a brighter and safer future

Bringing energy all around via sustainable solutions, Borealis offers cable makers a seamless transition to our ADCA-free alternative. It is our aim to be a reliable partner and we are here to help your organization work towards a brighter, safer future.

Reach out to us for further information: borealisbringsenergy.com/adca-free

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