01.04.2025 Ed.1

PRODUCT DATA SHEET

Polyethylene

HE2591

Crosslinkable PE (PEX)

Description

HE2591 is a high molecular weight, high density polyethylene specially designed for production of crosslinked pipes (PE-X).

Typical characteristics

HE2591 can be described with following typical characteristics:

Enhanced processability	Cleanliness
Economical pipe production	Excellent product consistency

HE2591 is a free flowing powder for the PE-Xa, peroxide crosslinking process.The material is only stabilized for transporting and storage. Crosslinking agent (e.g. peroxide) and stabilisers have to be added by the pipe manufacturer. Good crosslink response and well-balanced powder size distribution enable effective soaking and a stable pipe production.

Applications

HE2591 is intended for following applications:

District heating	Industrial applications
Domestic gas	Plumbing
Domestic water	Relining
Heating	

Specifications

HE2591 and/or articles produced from it, are expected to meet the applicable requirements included in the below mentioned standards provided it is processed using sound material handling and processing practices as well as appropriate testing procedures.

ASTM F876	EN ISO 15875

Physical properties

Property	Typical value *	Unit	Test method
Density	945.0	kg/m³	ISO 1183-1
Melt flow rate (190 °C/21.6 kg)	10.5	g/10min	ISO 1133-1

* Data should not be used for specification work

Processing techniques

Processing:
The actual conditions will depend on the type of equipment used. They will also depend on size and wall thickness of the pipe produced. Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borealis representative for such particulars.

Crosslinking:
The product has been tailored for the screw extrusion process in combination with the PE-Xa crosslinking method.

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Polyethylene

HE2591

Packaging and storage

HE2591 shall be stored indoors below 50°C in unopened original packaging in clean and dry environment and protected from UV-light. It is recommended to ensure proper stock rotation by using first in – first out principle. Following aforementioned conditions the material can safely be stored for a period of up to 12 months after production. However, caution shall be taken regarding the moisture level. It is recommended to measure the moisture after longer storage periods prior to processing.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available on our website www.borealisgroup.com.

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.
To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.
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It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.
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