

High Density Polyethylene for Crosslinked Pipes (PE-X)

Description

HE1878E-C2 is a high molecular weight, high density polyethylene specially designed for production of crosslinked pipes (PE-X)

Applications

HE1878E-C2 is recommended for the production of crosslinked pipes used in

Plumbing Industrial
Heating Domestic gas
District heating Domestic water
Relining

Specifications

HE1878E-C2 is intended to fulfill following standards and regulations, in case of appropriate industrial manufacturing standard procedures applied and a continuous quality system is implemented.

ASTM F 876 EN ISO 15875 DIN 16892 DIN 16893

Special features

HE1878E-C2 Is a pelletized material in minipellet form for the PE-Xa, peroxide crosslinking process. The material is fully stabilized for the heating and plumbing application. Crosslinking agent (e.g. peroxide) has to be added by the pipe manufacturer. Good crosslink response and well-balanced pellet size distribution enable effective soaking and a stable pipe production.

The material furthermore is accredited with the highest chlorine resistance rating available (Class 5 listing according to ASTM F876).

Physical Properties

Property	Typical Value	Test Method	
	Data should not be used for specification work		
Density (Compound)	952 kg/m³	ISO 1183	
Melt Flow Rate (190 °C/21,6 kg)	9 g/10min	ISO 1133	
Tensile Stress at Yield	22 MPa	ISO 527-2	
Oxidation Induction Time (210 °C),	> 50 min	ISO 11357-6	

Application Related Properties

Property	Typical Value Data should not be used for	Test Method specification work	
Chlorine resistance cell	5	ASTM F 2023	_





Processing Techniques

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.

Storage

HE1878E-C2 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety

The product is not classified as dangerous.

Recycling

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the products.

Recovery and disposal of polyolefins
Information on emissions from processing and fires
"Safety data sheet" / "Product safety information sheet"
Statement on compliance to food contact regulations
Statement on compliance to regulations for drinking water pipes





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.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

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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