



Polypropylene

HA104E

Polypropylene Homopolymer for pipes and fittings.

Description

HA104E is a natural high molecular weight, high melt flow rate polypropylene homopolymer characterised by well-balanced stiffness to impact strength ratio at increased processing properties.

Applications

HA104E is recommended for non-pressure pipes and fittings, structured wall pipes and profiles and sheets.

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	905 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	0,75 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.490 MPa	ISO 527
Tensile Strain at Yield (50 mm/min)	10 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	35 MPa	ISO 527-2
Heat Deflection Temperature	92 °C	ISO 75-2
Vicat softening temperature B50, (50 N)	94 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	4,5 kJ/m ²	ISO 179/1eA

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.

Extrusion

Cylinder	190 - 230 °C
Head	200 - 230 °C
Die	200 - 230 °C
Melt temperature	200 - 230 °C

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

HA104E 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.

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Safety

The product is not classified as a dangerous preparation.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our Safety Data 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

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.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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