



## Polypropylene

# BA160E-8229-01

Polypropylene Heteroplastic Copolymer for Injection moulding

### Description

**BA160E-8229-01** is an impact polypropylene heterophasic copolymer (block copolymer) with optimised mechanical properties, intended for injection moulding of compression pipe fittings and is coloured black

The product features very good processability. It also shows excellent stress crack resistance and a good resistance to chemicals. BA160E-8229-01 is characterised by a combination of high stiffness and high impact strength, also at low temperatures. BA160E-8229-01 has a  $\beta$ -crystalline molecular PP structure which improves the mechanical properties as well as the crystallisation temperature. This allows for cycle time reduction during injection moulding through higher demoulding temperatures and shorter cooling time.

BA160E-8229-01 is classified as an MRS 8.0 material (PE80). The additive formulation is designed for appropriate durability

### Applications

**BA160E-8229-01** is especially recommended for injection moulding of pipe compression fittings/mechanical pipe joints.

Drinking water  
Irrigation

Industrial applications

### Physical Properties

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density	900 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	0,3 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.300 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	11 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	30 MPa	ISO 527-2
Heat Deflection Temperature B	89 °C	ISO 75-2
Vicat softening temperature B50, (50 N)	86 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	50 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	5 kJ/m <sup>2</sup>	ISO 179/1eA

### Processing Techniques

BA160E-8229-01 is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature	230 - 260 °C
Holding pressure	As low as possible
Mould temperature	10 - 40 °C

Shrinkage 1 - 2 %, depending on wall thickness and moulding parameters

HongRong Engineering Plastics Co.,Ltd.  
Head Office Tel. +85-2-6957-5415  
Research Center Tel.+188 1699 6168



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## Storage

**BA160E-8229-01** 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. has a shelf life of 18 months from production date if stored in unopened original packages, under dry and clean conditions at temperatures between 15 - 25 °C.

## Safety

The product is not classified as dangerous.

## 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" / "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 product.

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

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**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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