

## PRODUCT DATA SHEET

18.02.2016 Ed.4

# **Plastomer/Elastomer** **Queo™ 8201**

### Description

**Queo 8201** is an ethylene based octene-1 plastomer, produced in a solution polymerisation process using a metallocene catalyst.

**CAS-No.** 26221-73-8

### Applications

**Queo 8201** Demonstrated applications include:

Specialty stretch film applications  
High strength flexible films  
Roof coverings  
Impact modification of PP  
Tunnel linings

Flexible low voltage insulation  
Halogen free flame retardant compounds  
Blow moulding  
Soft foams, e.g. artificial wine corks

### Additives

**Queo 8201** contains processing stabilizers

### Special Features

**Queo 8201** is optimised to deliver:

Versatile blending with other polyolefins in film, extrusion and moulding applications.  
Bridging of plastic and elastomeric properties  
Outstanding toughness  
Outstanding puncture resistance

Low temperature impact strength  
High filler and oil acceptance  
High clarity  
Low temperature flex-cracking and impact resistance

### Physical Properties

| Property                                               | Typical Value         | Test Method   |
|--------------------------------------------------------|-----------------------|---------------|
| Data should not be used for specification work         |                       |               |
| Density (23 °C)                                        | 883 kg/m <sup>3</sup> | ISO 1183      |
| Melt Flow Rate (190 °C/2,16 kg)                        | 1,1 dg/min            | ISO 1133      |
| Flexural Modulus <sup>1</sup>                          | 23 MPa                | ISO 178       |
| Tensile Strength <sup>1</sup>                          | 23 MPa                | ISO 527-2     |
| Elongation at Break <sup>1</sup>                       | 750 %                 | ISO 527-2     |
| Melting temperature (DSC)                              | 73 °C                 | ISO 11357-3   |
| Vicat softening temperature (10 N)                     | 50 °C                 | ISO 306       |
| Brittleness temperature                                | < -90 °C              | ASTM D 746    |
| Environmental Stress Crack Resistance ( ) <sup>1</sup> | > 1.000 hrs           | ASTM D 1693-B |
| Izod Impact Strength, notched (23 °C) <sup>1</sup>     | No break              | ISO 180/1A    |
| Hardness, Shore A                                      | 85                    | ISO 868       |
| Hardness, Shore D                                      | < 30                  | ISO 868       |

<sup>1</sup> Measured on moulded plaques.

Queo is a trademark of the Borealis group.

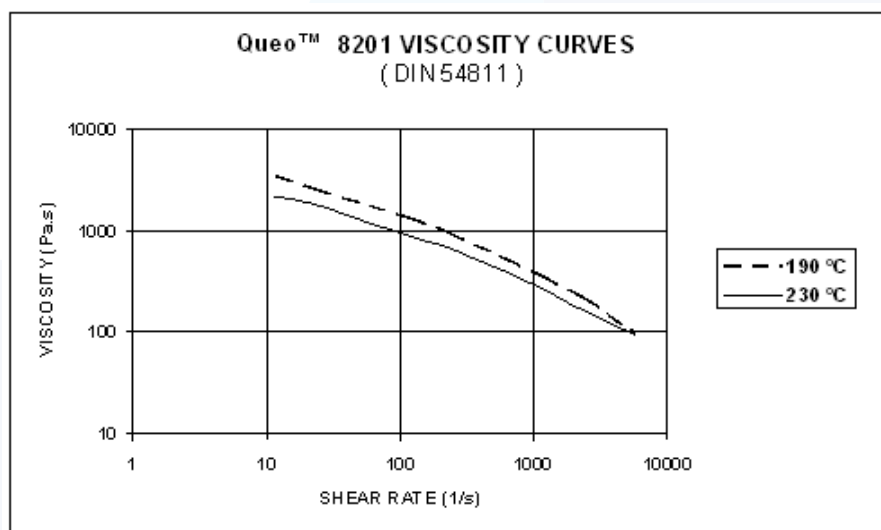
Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria  
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333  
FN 269858a | CCC Commercial Court of Vienna | Website [www.borealisgroup.com](http://www.borealisgroup.com)

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### Storage

**Queo 8201** This polymer, like most polymers, is combustible so the usual precautions concerning ignition sources should be taken in warehouses and storage rooms. Where large quantities are kept in store, it is necessary to observe the normal rules for orderly stock control and it is recommended to use the first in – first out (FIFO) principle for stock planning. The products should be stored in a dry and clean facility to prevent contamination and not be exposed to direct sunlight as this may lead to quality deterioration. These materials have a shelf life of at least 3 (three) years after date of production, provided the material remains in its original unopened packaging and are stored under the storage conditions as described in this document. "Shelf life" means that there will not be any substantial difference compared to the agreed specification. The date of batch creation can be derived from the batch code printed on the bags representing. YYMMDDHLL (LL being two letters with no reference to the production time). Borealis Plastomers generally does not sell prime material older than 2 (two) years unannounced. The lower density Queo materials (< 880 kg/m<sup>3</sup>) are more sensitive to temperatures. Therefore the following specific storage and handling guidelines have to be taken into account

- The product should not be stored for extended periods or transferred at ambient temperatures greatly exceeding 25 degrees Celsius.
- The products should not be stacked when in bags or super sacks

### Related Documents

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

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## Queo 8201

"Safety data sheet" / "Product safety information sheet"  
Statement on chemicals, regulations and standards  
General statement on compliance to food contact regulations  
Statement on polymer additives and BSE

**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 any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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