

Plastomer/Elastomer

Queo™ 0201FX

Polyolefin Elastomer

Description

Queo™ 0201FX is an ethylene based octene-1 plastomer, produced in a solution polymerisation process using a metallocene catalyst.

Queo™ 0201FX contains anti block agent, slip agent and stabilizers.

Cas No. 26221-73-8

Versatile blending with other polyolefins in film, extrusion and moulding applications.

Unrivalled sealing and hot tack properties at low temperature

Low Coefficient of Friction (C.O.F.) and improved C.O.F. consistency

Outstanding toughness

Outstanding puncture resistance

Low temperature impact strength

High clarity

Applications

High speed FFS film

Laminated structures requiring very high seal integrity

High strength flexible film

Sealing layer in coextrusion

Queo 0201FX is intended for use as primary blend partner in high performance seal layers with an additive package designed to offer improved control of the coefficient of friction of co-extruded blown films.

Physical properties

| Property  | Typical value * | Unit              | Test method |
|---|-----------------|-------------------|-------------|
| Density   | 902             | kg/m <sup>3</sup> | ISO 1183-1  |
| Melt flow rate ( 190 °C/2.16 kg)                    | 1.1             | g/10min           | ISO 1133-1  |
| Flexural modulus <sup>1</sup>                       | 64              | MPa               | ISO 178     |
| Tensile Modulus <sup>2</sup>                        | 65              | MPa               | ASTM D638   |
| Elongation at Break <sup>2</sup>                    | 300             | %                 | ASTM D638   |
| Izod impact strength, notched ( 23 °C) <sup>1</sup> | NB              | kJ/m <sup>2</sup> | ISO 180     |
| Melting temperature                                 | 95              | °C                | ISO 11357-3 |
| Vicat softening temperature A50 ( 10 N)             | 80              | °C                | ISO 306     |
| Hardness, Shore D                                   | 35              | -                 | ISO 868     |

\* Data should not be used for specification work

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

<sup>2</sup> Measured on moulded plaques

Modified method adopted to plastomers and elastomers

Film properties

| Property  | Typical value * | Unit | Test method |
|-----------|-----------------|------|-------------|
| Dart drop | 79              | g/μm | ASTM D1709  |
| Gloss 20° | 78              | GU   | ASTM D2457  |
| Haze      | 6               | %    | ASTM D1003  |

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Queo™ is a trademark of the Borealis Group



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### Packaging and storage

Queo 0201FX, 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.

### Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website [www.borealisgroup.com](http://www.borealisgroup.com).

### Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites [www.borealisgroup.com](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.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.

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.