

## **Description**

**Queo 0203** is an ethylene based octene-1 plastomer, produced in a solution polymerisation process using a metallocene catalyst.

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

# **Applications**

Queo 0203 Demonstrated applications include:

Seal layers in lamination and flexible barrier films Specialty cast stretch applications Lap sealing to OPP PP film toughness modification High clarity household articles Halogen free flame retardant compounds Soft foams, e.g. artificial wine corks

### **Additives**

Queo 0203 contains processing stabilizers

# **Special Features**

Queo 0203 is optimised to deliver:

Versatile blending with other polyolefins in film, extrusion and moulding applications.
Unrivalled sealing and hot tack properties at low temperature
Flexibility

Outstanding toughness Outstanding puncture resistance Low temperature impact strength High clarity

# **Physical Properties**

Property	Typical Value	Test Method	
	Data should not be used for specification work		
Density (23 °C)	902 kg/m³	ISO 1183	
Melt Flow Rate (190 °C/2,16 kg)	3 dg/min	ISO 1133	
Flexural Modulus 1	72 MPa	ISO 178	
Tensile Modulus	65 MPa	ASTM D 882-A	
Tensile Strength <sup>1</sup>	31 MPa	ISO 527-2	
Elongation at Break <sup>1</sup>	820 %	ISO 527-2	
Melting temperature (DSC)	96 °C	ISO 11357-3	
Seal Initiation Temperature	80 °C	ASTM F88	
Vicat softening temperature (10 N)	80 °C	ISO 306	
Brittleness temperature	< -90 °C	ASTM D 746	
Environmental Stress Crack Resistance () 1	> 1.000 hrs	ASTM D 1693-B	
Izod Impact Strength, notched (23 °C) 1	No break	ISO 180/1A	
Hardness, Shore D	43	ISO 868	

<sup>&</sup>lt;sup>1</sup> Measured on moulded plaques.

Queo is a trademark of the Borealis group.

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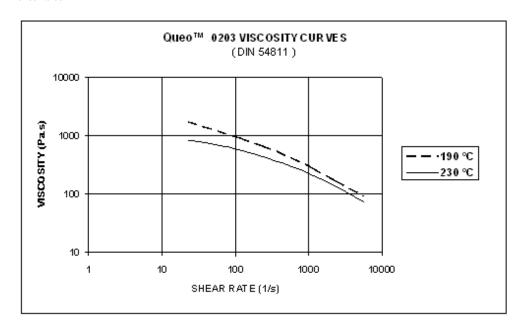




# **Film Properties**

Property		Typical Value Test Method Data should not be used for specification work		
Dart Drop <sup>1</sup> Puncture resistance Haze Gloss (45 °C)	Energy to break	> 32 g/µm 2650 mJ/mm 2 % 82	ASTM D1709 Borealis Method ASTM D 1003 ASTM D 2457	

<sup>&</sup>lt;sup>1</sup> Blown film Monsanto dart



## Storage

**Queo 0203** 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. YYMMDDHHLL (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.

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### **Related Documents**

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

"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.

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