

Plastomer/Elastomer

Queo™ 0201

Polyolefin Plastomer

Description

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

Cas No. 26221-73-8

Typical characteristics

Queo 0201 can be described with following typical characteristics:

High clarity	Low amount of extractables
Flexibility	Outstanding toughness
Versatile blending with other polyolefins in film extrusion and moulding applications.	Outstanding puncture resistance
Unrivalled sealing and hot tack properties at low temperature	Low temperature impact strength
	Excellent environmental stress cracking resistance (ESCR)

Applications

Queo™ 0201 is intended for following applications:

Blow moulding	PP film toughness modification
Flexible low voltage insulation	Seal layers in lamination and flexible barrier films
Heat shrinkable display films	Soft foams, e.g. artificial wine corks
High strength flexible films	Compounds

Physical properties

Property	Typical value *	Unit	Test method
Density	902	kg/m³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	1.1	g/10min	ISO 1133-1
Flexural modulus ¹	73	MPa	ISO 178
Tensile modulus	70	MPa	ISO527-2
Tensile strength ²	15	MPa	ISO 527-2
Tensile strain at break ²	300	%	ISO 527-2
Izod impact strength, notched (23 °C) ¹	no break	kJ/m²	ISO 180
Melting temperature	96	°C	ISO 11357-3
Vicat softening temperature A50	80	°C	ISO 306
Hardness, Shore D	42	-	ISO 868

* Data should not be used for specification work

¹ Measured on moulded plaques

² Measured on moulded plaques

Modified method adopted to plastomers and elastomers

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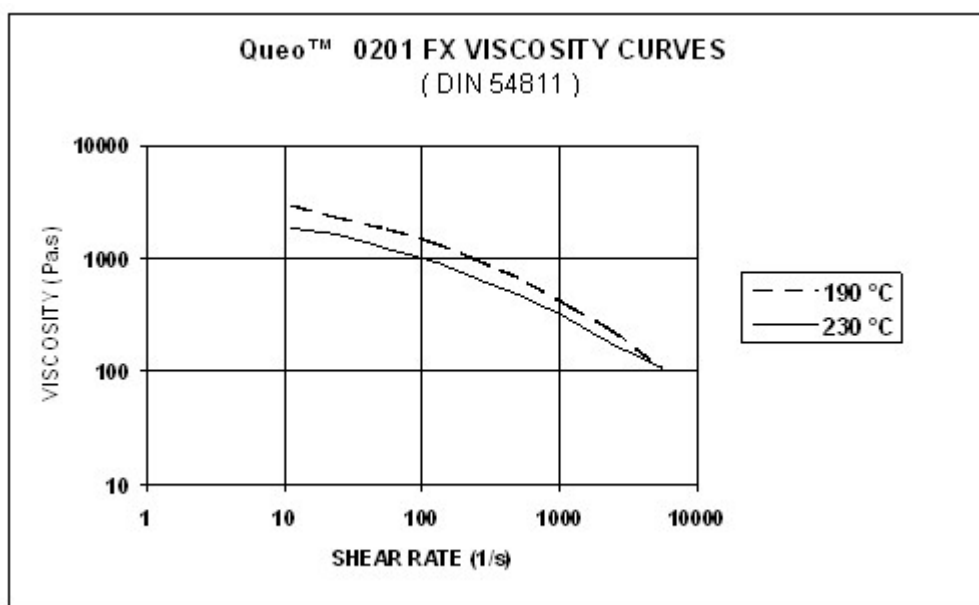
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Film properties

Property	Typical value *	Unit	Test method
Dart drop	48	g/μm	ASTM D1709
Puncture resistance, energy to break	94	mJ/mm	ISO 7765-2
Seal initiation temperature ³	85	°C	
Gloss 20°	100	GU	ASTM D2457
Haze	2	%	ASTM D1003

* Data should not be used for specification work

³ Internal method



Packaging and storage

Queo 0201, 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.

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 and www.borealiseverminds.com.

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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.

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