

# Queo™ 8203

## Octene-1 Plastomer

## DATA SHEET

### Description and Attributes

Queo™ 8203 is an ethylene based octene plastomer produced in a solution polymerisation process using a metallocene catalyst.

Supplied as free flowing pellets, Queo 8203 is designed to offer:

- Favourable melt strength - processability balance.
- Flexibility
- Outstanding toughness and puncture resistance
- Low temperature flex-cracking and impact resistance
- Low dielectric constant and dissipation factor
- High clarity
- High filler and oil acceptance
- Excellent polyolefin compatibility

### Applications

Demonstrated applications include :

- Impact modification of PP
- Roof coverings
- Tunnel linings
- Flexible low voltage insulation
- Halogen free flame retardant compounds
- Blow moulded articles
- Soft foams
- High strength flexible films
- Specialty stretch film applications

### Additives

Queo 8203 contains processing stabilizers.

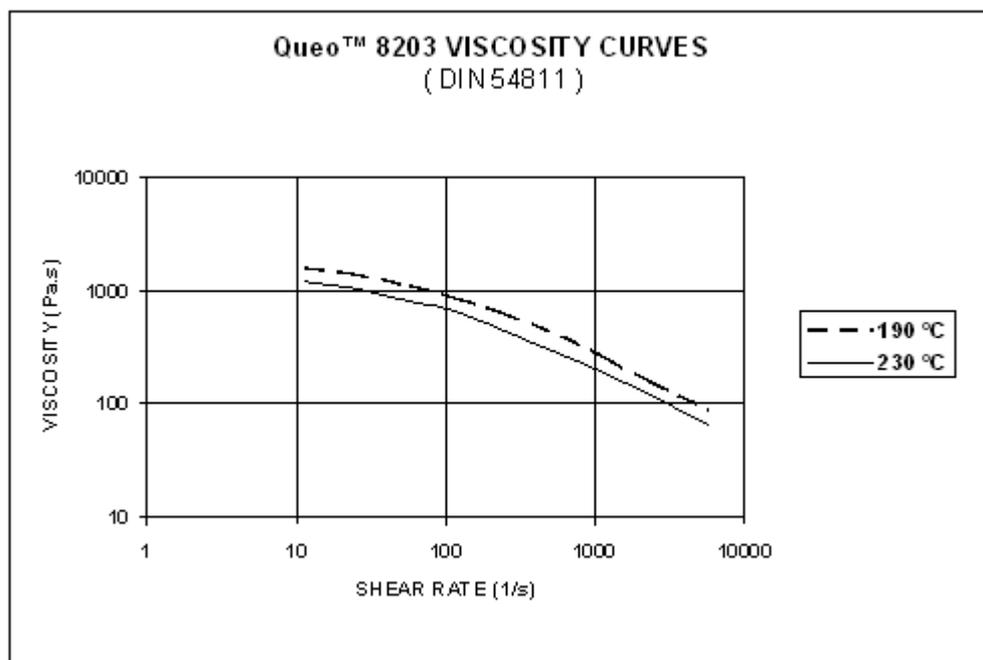
<b>General properties</b>	<b>Units</b>	<b>Typical values [1]</b>	<b>Method</b>
Melt Flow Rate (2.16 kg/190°C)	dg/min	3.0	ISO 1133
Density (23°C)	kg/m <sup>3</sup>	882	ISO 1183
Shore A hardness	--	85	ISO 868
Shore D hardness	--	<30	ISO 868
DSC peak melting point	°C	74	ISO 11357
Vicat softening temperature (at 10 N)	°C	50	ISO 306
Brittleness temperature	°C	< -76	ASTM D746

### Moulded plaque properties [2]

Tensile strength at break	MPa	22	ISO 527-2 (5A)
Elongation at break	%	820	ISO 527-2 (5A)
Flexural modulus	MPa	24	ISO 178
Notched Izod at 23°C	kJ/m <sup>2</sup>	No break	ISO 180 (1A)
Environmental stress crack resistance	hr	> 1000	ASTM D1693 (method B)

[1] Values are typical and not to be interpreted as specifications.

[2] Specifics of compression moulded test specimen.



### ***Food Law Compliance and Product Handling***

Queo 8203 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your sales representative for more detailed information and/or actual compliance certification documents.

Specific information on material safety aspects of Queo 8203 will be provided upon request.

### ***Standard Packaging***

Queo 8203 is supplied as free flowing pellets in bulk or packaged in 25 kg bags. The 25 kg bags are assembled on a heat treated pallet to a net weight of 1'375 kg and covered with a stretch hood.

### **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 Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

Queo™ is a trademark of the Borealis Group.