PRODUCT DATA SHEET

Plastomer/Elastomer

Queo™ 6800LA

Polyolefin Elastomer

Description

Queo 6800LA is an ethylene based octene-1 elastomer, produced in a solution polymerisation process using a metallocene catalyst.

Queo 6800LA contains a low amount of processing stabilizers.

Cas No. 26221-73-8

Typical characteristics

Queo 6800LA can be described with following typical characteristics:

- Excellent Polyolefin compatibility
- High clarity
- High flexibility
- Low peak melting point
- Outstanding toughness
- Strong polymer modifier
- High filler and oil acceptance

Applications

Queo™ 6800LA is intended for following applications:

- Compounds
- PP toughness modification
- Wire and cable compounds
- Blown film
- Cling film
- Stretch film

Physical properties

Property	Typical value *	Unit	Test method
Density	868	kg/m³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	0.5	g/10min	ISO 1133-1
Flexural modulus	8	MPa	ISO 527-1
Tensile stress at break	6	MPa	ISO 527
Tensile strain at break	>400	%	ISO 527-2
Melting temperature	55	°C	ISO 11357-3
Vicat softening temperature A50	38	°C	ISO 306
Brittleness temperature	< -90	°C	ISO 974
Izod impact strength, notched (23 °C)	No break	kJ/m²	ISO 180
Hardness, Shore A	74	-	ISO 868
Hardness, Shore D	22	-	ISO 868

* Data should not be used for specification work

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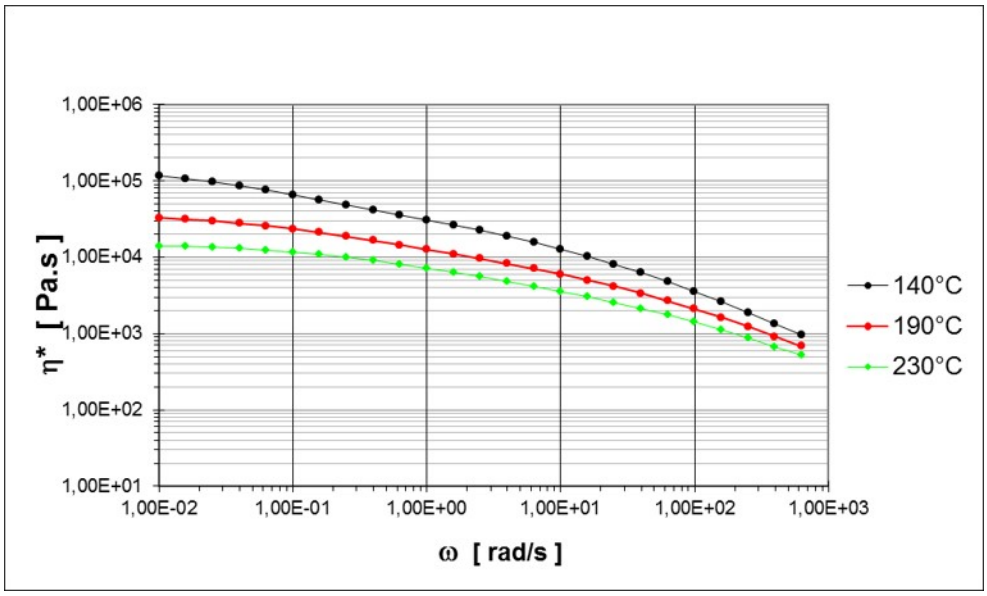
Film properties

Property	Typical value *	Unit	Test method
Seal initiation temperature (1 N) [1]	61	°C	ASTM F88

* Data should not be used for specification work

[1] *40 µ blown film*



Packaging and storage

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.
- 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.

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.
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.