



# Plastomer/Elastomer

## Queo™ 7007LA

### Description

**Queo 7007LA** - is an ethylene based octene-1 elastomer, produced in a solution polymerisation process using a metallocene catalyst.

### Applications

**Queo 7007LA** Demonstrated applications include:

Seal layers in lamination and flexible barrier films	Extrusion coating
Surface protection film	Cling film
Noise reduction in e.g. automotive applications	Halogen free flame retardant compounds
TPO compounds	High strength flexible films

### Additives

**Queo 7007LA** contains a low amount of processing stabilizers

### Special Features

**Queo 7007LA** is optimised to deliver:

Versatile blending with other polyolefins in film, extrusion and moulding applications.	High clarity
Bridging of plastic and elastomeric properties	Low peak melting point

### Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (23 °C)	870 kg/m <sup>3</sup>	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	6,6 dg/min	ISO 1133
Melt Flow Rate (230 °C/2,16 kg)	15 dg/min	ISO 1133
Flexural Modulus <sup>1</sup>	8 MPa	ISO 527-1
Tensile Stress at Break	6 MPa	ISO 527
Elongation at Break <sup>1</sup>	> 400 %	ISO 527-1
Melting temperature (DSC)	48 °C	ISO 11357-3
Vicat softening temperature (10 N)	35 °C	ISO 306
Brittleness temperature	< -90 °C	ISO 974
Izod Impact Strength, notched (23 °C) <sup>1</sup>	No break	ISO 180:2000
Hardness, Shore A	71	ISO 868
Hardness, Shore D	< 20	ISO 868

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

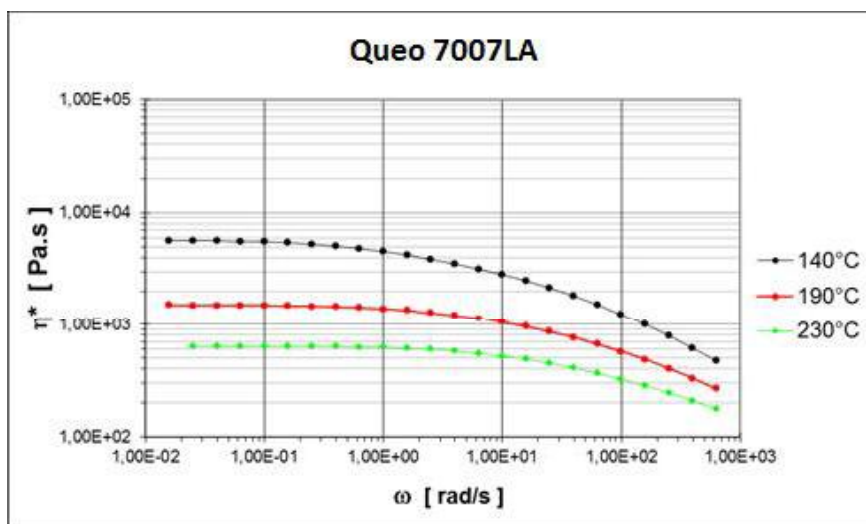
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**Application Related Properties**

Property	Typical Value	Test Method
Mooney viscosity ML (1+4) 100 °C	11	DIN 53523-3:1976



**Storage**

**Queo 7007LA** 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 YYMMDDHLL (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. The lower density Queo materials (< 880 kg/m<sup>3</sup>) are more sensitive to temperatures. Therefore the following specific storage and handling guidelines have to be taken into account

- 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



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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.**

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.