

Plastomer/Elastomer

Queo™ 1007

Polyolefin Plastomer

Description

Queo 1007 is an ethylene based octene-1 plastomer, produced in a solution polymerisation process using a metallocene catalyst.

Cas No. 26221-73-8

Queo™ 1007 contains:

Stabilizers

Typical characteristics

Queo 1007 can be described with following typical characteristics:

Versatile blending with other polyolefins in film extrusion and moulding applications.

Unrivalled sealing and hot tack properties at low temperature

Outstanding toughness

Outstanding puncture resistance

Low temperature impact strength

High flexibility and surface softness

High clarity

Low amount of extractables

Applications

Queo™ 1007 is intended for following applications:

Caps and closures

Compounds

Moulded articles

PP toughness modification

Seal layers in multilayer barrier films

Physical properties

Property	Typical value *	Unit	Test method
Density	910	kg/m ³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	6.6	g/10min	ISO 1133-1
Flexural modulus ¹	118	MPa	ISO 178
Tensile strength ²	17	MPa	ISO 527-2
Tensile strain at break ²	>500	%	ISO 527-2
Melting temperature	105	°C	ISO 11357-3
Vicat softening temperature A50 (10 N)	88	°C	ISO 306
Environmental stress crack resistance	>800	h	ASTM D 1693
Izod impact strength, notched (23 °C)	No break	kJ/m ²	ISO 180
Hardness, Shore D	43	-	ISO 868

* Data should not be used for specification work

¹ Measured on moulded plaque

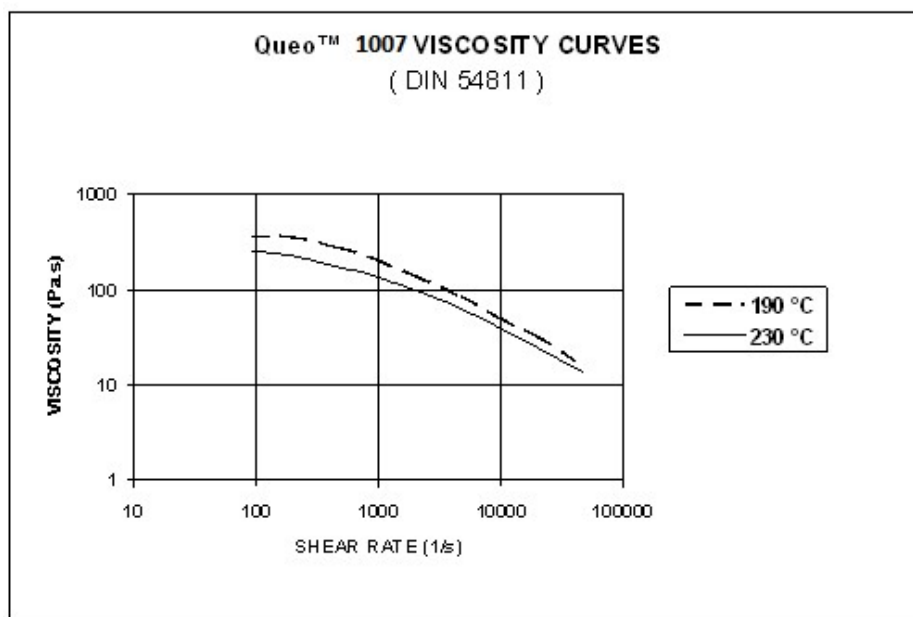
² Measured on moulded plaques

Modified method adopted to plastomers and elastomers

Queo™ is a trademark of the Borealis Group

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Packaging and storage

Queo 1007, 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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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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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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