

PRODUCT DATA SHEET

19.02.2016 Ed.3

Polyethylene **Stamylex™ 5119S**

Description

Stamylex 5119S is a propylene based medium density linear polyethylene produced in a solution polymerisation process using a Ziegler-Natta catalyst.

CAS-No. 9010-79-1

Applications

Stamylex 5119S Demonstrated applications include:

Caps of non-carbonated mineral water bottles due to good closing properties, unscrewing torque, organoleptic

properties and trouble-free operation on fast bottle filling lines.

Additives

Stamylex 5119S contains thermal and processing stabilizers

Special Features

Stamylex 5119S is optimised to deliver:

Good flow properties
Good mechanical properties

Narrow additive tolerances

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (23 °C)	944 kg/m ³	ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	11 dg/min	ISO 1133
Tensile Strength ¹	12 MPa	ISO 527-2
Elongation at Break ¹	40 %	ISO 527-2
Melting temperature (DSC)	125 °C	ISO 11357-3
Vicat softening temperature (10 N)	115 °C	ISO 306
Izod Impact Strength, notched (23 °C) ¹	3,7 kJ/m ²	ISO 180/1A

¹ Specifics of compression moulded test specimen as per ISO 527-2 type 1 BA, thickness 2 mm. Test speed 500 mm/min.

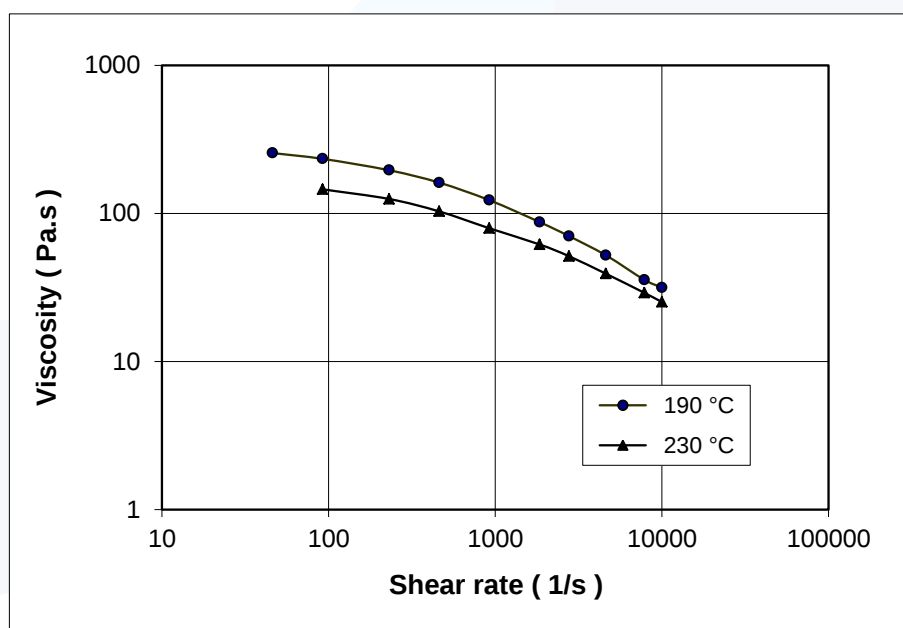
Stamylex is a registered trademark of the Borealis group.

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Storage

Stamylex 5119S 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. YYMMDDHHLL (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.

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

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 Polyethylene
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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.

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