

# **Technical Data Sheet**

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## MS 20 A

LLDPE

**FLEXIRENE**<sup>®</sup>

Linear low density polyethylene

Flexirene MS 20 A is a linear low density polyethylene (LLDPE) with antioxidants, suitable for injection moulding application.

Parts made by Flexirene MS 20 A are characterised by optimum low temperature properties.

## Main Application

Flexirene MS 20 A is recommended for the production of lids, caps and closures for chemical products and containers, and is suggested for low temperature applications. Flexirene MS 20 A is characterised by a high flowability which makes it ideal for masterbatches preparation for LDPE and LLDPE.

## Main Properties

Flow Rate (190 °C/2.16 kg) 26 g/1   Flow Rate (190 °C/5 kg) - g/1   Flow Rate (190 °C/21.6 kg) - g/1   ity 0.921 g/2	Jnit   Test Metho     10min   ISO 1133     °C   Metodo inter	
eness temperature <- 70	°C   ASTM D 74     °C   ISO 306/4	
le stress at yield9Mle stress at break10M	Jnit   Test Metho     MPa   ISO 527     MPa   ISO 527     %   ISO 527	bd
ation at brek> 500ral modulus150ness Shore D48g Weight:-jmpact strength, notched-J	J/m ISO 180/A	2
g Weight: -		J/mm ISO 6603-2

(\*) Values are referred to injection moulded specimens. Actual properties are typical and may vary depending upon operating conditions.

#### **Processing notes**

Flexirene MS 20 A is easy to mould with the newest injection moulding machines. Results are excellent. Typical processing conditions (\*)

Temperature profile of the barrel (°C) 160 - 210

Temperature of the mould (°C) 10 - 40

(\*) Processing conditions are depending on several parameters: the shape of the part to be manufactured, the localisation of the injection point, the injection moulding machine and the cooling of the mould.

#### Storage and Handling

Flexirene MS 20 A is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletised polyethylene resin, provided the equipment is designed to prevent accumulation of the fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used be equipped with filters of adequate size, operated and maintained in such a manner to ensure that no leaks develop and earthed adequately. We further recommend that good housekeeping should be practised throughout your facility.

The product should be stored in dry conditions at temperatures below 50°C and protected from sunlight.

Improper storage can initiate degradation which results in odour generation, colour changes and can have negative effects on the physical properties of the product.

Before using this product it is recommended to read and understand the relevant Safety Data Sheet.

#### **Availability**

Contact the versalis sales office nearest to you regarding availability and your specific application requirements.

#### **Food Contact Status**

Flexirene MS 20 A complies with the rules and regulations of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications. Certificates of compliance are available upon request.

#### TECHNICAL SERVICE

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IMPORTANT: please consult the relevant safety data sheet for more detailed information. The information and data presented herein are to the best of our knowledge true and accurate but no warranty or guarantee, expressed or implied, is made nor is any liability accepted with respect to the use of such information and data.

versalis is available to provide the guaranteed values for each product on demand.