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## **Technical Data Sheet**

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# FLEXIRENE<sup>®</sup>

<mark>MT 4</mark>0 A

Linear low density polyethylene

Flexirene MT 40 A is a linear low density polyethylene (LLDPE) with antioxidants, suitable for injection moulding application.

Flexirene MT 40 A is characterised by a good processability and impact resistance.

### Main Application

Flexirene MT 40 A is recommended for the production of large sized technical moulding, houseware, closures, lids and bag handles. Flexirene MT 40 A is characterised by an excellent flowability wich makes it ideal for masterbatches preparation for LDPE and LLDPE.

#### **Main Properties**

Resin Properties		Value	Unit	Test Method
Melt Flow Rate (190 °C/2.16 k	3)	50	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)			g/10min	ISO 1133
Melt Flow Rate (190 °C/21.6 k	3)		g/10min	ISO 1133
Density		0.925	g/cm3	ISO 1183
Melting point		117	°C	Metodo interno
Brittleness temperature		<□ 70	°C	ASTM D 746
Vicat softening point (1 kg)		92	°C	ISO 306/A
Mechanical Properties *		Value	Unit	Test Method
•		Value	Onic	rest method
Tensile stress at yield		10	MPa	ISO 527
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Tensile stress at yield		10	MPa	ISO 527
Tensile stress at yield Tensile stress at break		10 10	MPa MPa	ISO 527 ISO 527
Tensile stress at yield Tensile stress at break Tensile strain at yieal		10 10 □	MPa MPa %	ISO 527 ISO 527 ISO 527 ISO 527
Tensile stress at yield Tensile stress at break Tensile strain at yieal Elongation at brek		10 10 □ > 500	MPa MPa %	ISO 527 ISO 527 ISO 527 ISO 527 ISO 527
Tensile stress at yield Tensile stress at break Tensile strain at yieal Elongation at brek Flexural modulus		10 10 □ > 500 220	MPa MPa % % MPa	ISO 527 ISO 527 ISO 527 ISO 527 ISO 527 ISO 178
Tensile stress at yield Tensile stress at break Tensile strain at yieal Elongation at brek Flexural modulus Hardness Shore D		10 10 □ > 500 220 47	MPa MPa % MPa □	ISO 527 ISO 527 ISO 527 ISO 527 ISO 527 ISO 178 ISO 868 A
Tensile stress at yield Tensile stress at break Tensile strain at yieal Elongation at brek Flexural modulus Hardness Shore D Falling Weight:	Resistance (ESCR)	10 10 □ > 500 220 47 □	MPa MPa % MPa □ J/mm	ISO 527 ISO 527 ISO 527 ISO 527 ISO 527 ISO 178 ISO 868 A ISO 6603□2

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

#### **Processing notes**

Flexirene MT 40 A is easy to mould with the newest injection moulding machines. Results are excellent. Typical processing conditions (\*)

Temperature profile of the barrel (°C) 160  $\Box$  210

Temperature of the mould (°C)  $10 \Box 40$ 

(\*) 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 MT 40 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 MT 40 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.