



versalis

Technical Data Sheet

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ERACLENE[®]

ML 70 U

HDPE

High density polyethylene

Eraclene ML 70 U is a high density polyethylene resin (HDPE) with antioxidants, suitable for injection moulding application.

Its narrow molecular weight distribution leads to high mechanical properties (rigidity, impact strength) together with high stress cracking resistance.

Main Application

Eraclene ML 70 U is suggested to produce items with high mechanical performances, industrial containers, pallets and lids for open drums.

Main Properties

Resin Properties	Value	Test Method	Unit
Melt Flow Rate (190 °C/2.16 kg)	2.8	g/10min	ISO 1133
Melt Flow Rate (190 °C/5 kg)	8	g/10min	ISO 1133
Density	0.951	g/cm ³	ISO 1183
Melting Point	135	°C	Internal method
Brittleness temperature	< - 60	°C	ASTM D 746
Vicat softening point (1 kg)	125	°C	ISO 306/A

Mechanical Properties *	Value	Unit	Test Method
Tensile stress at yield	25	MPa	ISO 527
Tensile strength at break	20	MPa	ISO 527
Elongation at break	800	%	ISO 527
Flexural modulus	1100	MPa	ISO 178
Hardness Shore D	64	-	ISO 868 A
Falling Weight:	-	J/mm	ISO 6603/2
Izod impact strength, notched	200	J/m	ISO 180/A
Environmental Stress Cracking Resistance (ESCR)	-	h	ISO 22088

* Values are referred to compression moulded specimens. Actual properties are typical and may vary depending upon operating conditions.

Processing notes

Eraclene ML 70 U is readily processable by conventional injection moulding equipment with excellent results.

Typical processing conditions (*)

Temperature profile of the barrel (°C) 220 - 275

Temperature of the mould (°C) 10 - 40

Storage and Handling

Eraclene ML 70 U 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 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

Eraclene ML 70 U 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.