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www.polimerieuropa.com

Technical Data Sheet

info.polyethylene@polimerieuropa.com

GREENFLEX[®]

EVA

ML 50

Ethylene vinyl acetate copolymer

Greenflex ML 50 is an ethylene vinyl acetate copolymer (EVA) for injection moulding, compounding and extrusion.

Items produced with Greenflex ML 50 show high elasticity.

Main applications

Greenflex ML 50 is recommended for the production of foamed and crosslinked sheets for shoes, dolls, shock absorbers and gasket.

Main properties

Resin Properties	Test method	Unit	Value
Melt Flow Rate (190 °C/ 2.16 kg)	ISO 1133	g/10min	2.5
Vinyl acetate content	Internal method	%	19
Density	ISO 1183	g/cm ³	0.941
Melting point	Internal method	°C	83
Brittleness point	ASTM D 746	°C	< - 80
Vicat softening point (1 kg)	ISO 306/A	°C	58

Mechanical Properties *	Test method	Unit	Value
Tensile stress at yield	ISO 527	MPa	4.5
Tensile strenght at break	ISO 527	MPa	-
Elongation at break	ISO 527	%	-
Flexural modulus	ISO 178	MPa	40
Hardness Shore A	ISO 868/A		89
Hardness Shore D	ISO 868/A		36

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

Processing conditions

Greenflex ML 50 is readily processable by the latest injection moulding equipments with excellent results.

Moulding Conditions (*)

Stock temperature (°C) 140 – 200

Mould temperature (°C) 10 – 30

(*) Moulding conditions may vary with part and gate design, equipment used and mould cooling.

Storage and handling

Greenflex ML 50 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.

Stored in an airy and dry room, at temperatures between 20°C and 30°C, with no direct sunlight, the shelf life is about 18 months. However, before using this product, read and understand the relevant POLIMERI EUROPA Safety Data Sheet.

Availability

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

Food contact status

Greenflex ML 50 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

Polimeri Europa S.p.A.
Piazza Boldrini, 1
20097 S.Donato Milanese, Italia
Tel. +39 02 520.1
Fax + 39 02 520.42901

Polimeri Europa SAS
1 Route des Dunes BP 59
F-59279 MARDYCK - France
Tel. +33 3 28235514
Fax +33 3 28235520

Polimeri Europa S.p.A.
Via Talierno, 14
46100 Mantova, Italia
Tel. +39 0376 305504
Fax + 39 0376 305299

HEADQUARTER

Polimeri Europa S.p.A.
Piazza Boldrini, 1
20097 San Donato Milanese, Milano - Italia
Tel. +39 02 520.1
Fax + 39 02 520.42901

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.

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