



Technical Data Sheet

Greenflex[®] ML 50

Ethylene Vinyl Acetate Copolymer (EVA)

DESCRIPTION

Greenflex[®] ML 50 is an Ethylene Vinyl Acetate copolymer resin (EVA) for injection moulding and compounding applications.

Items produced with Greenflex[®] ML 50 show high elasticity.

APPLICATIONS

Greenflex[®] ML 50 is recommended for the production of foamed crosslinked sheets for shoes, dolls, shock absorbers and gaskets.

TYPICAL PROPERTIES

Properties	Test Method	Typical value
Resin properties		
Melt Flow Rate _{190 °C / 2.16 kg} (g/10 min)	ISO 1133	2.5
Vinyl acetate content (%)	Internal method	19
Melting point (°C)	Internal method	83
Brittleness point (°C)	ASTM D 746	< -80
Vicat softening point _{1kg} (°C)	ISO 306/A	58
Mechanical properties¹		
Tensile stress at yield (MPa)	ISO 527	4.5
Flexural modulus (MPa)	ISO 178	40
Hardness Shore A	ISO 868/A	89
Hardness Shore D	ISO 868/A	36

¹ Values are referred to injection moulded specimens. Actual properties are typical and may vary depending upon operating conditions.

PROCESSING CONDITIONS

Greenflex® ML 50 is easy to mould with the newest injection moulding machines. Results are excellent.

Typical processing conditions (*)

Temperature profile of the barrel (°C) 140 - 200

Temperature of the mould (°C) 10 - 30

(*) 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

Greenflex® ML 50 is supplied in pellet form. This material may readily be conveyed and bulk-fed through equipment designed for conventional palletized 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. Before using this product, read and understand the current POLIMERI EUROPA Safety Data Sheet for this product.

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.

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