



Polimeri Europa

Injection Moulding Resins

Technical Data Sheet

Riblene® MP31

Low Density Polyethylene

DESCRIPTION

Riblene® MP31 is a medium fluidity low density polyethylene resin (LDPE) additivated with slip agent.

APPLICATIONS

Riblene® MP31 is suitable for injection moulding and compound applications. Parts made by Riblene® MP31 are characterised by a medium rigidity. Riblene® MP31 is recommended for caps, stoppers, closures and medium thickness articles.

PROPERTIES

TYPICAL

Properties	Test Method	Typical value
Resin Properties		
Melt Flow Index _{190 °C / 2.16 kg} (g/10')	ASTM D1238	8
Density (g/cm ³)	ASTM D1505	0.924
Melting point (°C)	PE	112
Brittleness point (°C)	ASTM D746	<-65
Vicat softening point _{1 kg} (°C)	ASTM D1525	92
Mechanical properties		
Tensile strength at yield (MPa)	ASTM D638	14.5
Flexural modulus (MPa)	ASTM D790	200
Hardness (Shore D)	ASTM D2240	50

¹ Values are referred to an injection moulded plaque
Actual properties are typical and may vary depending upon operating conditions and additive package.

This document is constituted of 2 pages

PROCESSING CONDITIONS

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

Typical processing conditions:

Temperature profile of the barrel (°C) 160 - 220

Temperature of the mould (°C) 10 - 30

STORAGE AND HANDLING

Riblene® MP31 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.

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

Riblene® MP31 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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