

TECHNICAL DATA SHEET

TIPOLEN MF 243-51

LDPE for injection moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

The joint product portfolio of MOL Petrochemicals and Slovnaft provides infinite opportunities

DESCRIPTION

TIPOLEN MF 243-51 is a low density polyethylene intended mainly for injection moulding. This grade is additives free.

APPLICATIONS

TIPOLEN MF 243-51 intended for injection moulding of general purpose goods and technical items. Resin is possible to utilize as a carrier for colour and additives masterbatches and compounding.

TIPOLEN MF 243-51 TST is suitable for food contact, for manufacturing of pharmaceutical packing products and toys. The product complies with Food Contact, Pharmaceutical and Toy Safety Regulations.

PROPERTIES

	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	ISO 1133/A	g/10 min	20
Density (23 °C) *	ISO 1183-2	kg/m ³	922
Tensile Strength **	ISO 527-3	MPa	9
Tensile Strain at Break (MD/TD) **	ISO 527-3	%	130
Vicat softening Temperature *	ISO 306/A 50	°C	90
Shore D Hardness*	ISO 868		50
Flexural modulus	ISO 178	Mpa	195
Notched Izom impact (+23°C)	ISO 180/A	kJ/m ²	48

Typical properties, not to be used as specification.

*Density, Vicat Softening Temperature and Shore D Hardness have been measured on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291)

**Properties on film in M.D./T.D. - thickness of 0.07 mm (MFR=0.3 g/10min) and 0.04 mm (MFR more than 0.3 g/10min), blow up ratio 2:1

PROCESSING

TIPOLEN MF 243-51 can be used in conventional injection machines.

Recommended processing melt temperatures for injection moulding 170-220 °C.

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STORAGE AND HANDLING

Pellets are packed in 25 kg PE-LD bags and transported on stretch or shrink-wrapped pallets at eligible load of polymer 1375 kg. Heat treated pallets are available as well. We use adhesive between the bags in order to avoid their slipping. Pay attention to this fact during the removing of the bags from the pallets. The preferred method is to lift the bag at first without rotation. Transportation in a road silo or rail silo is also available. For more detailed information please contact SLOVNAFT and MOL Petrochemicals sales representative.

Since polyethylene is a combustible substance, the fire safety rules applicable for combustible materials in warehouses and store rooms should be observed.

If polymer is stored in conditions of high humidity and fluctuating temperatures, then atmospheric moisture can condense inside the packing. If it happened, it is recommended the pellets to be dried before use. During the storage polyethylene should not be exposed to UV radiation and temperatures above 40°C. Producer does not take responsibility for any damages caused by adverse storage.

REACH STATEMENT

Polymers are exempt of REACH registration. However, their raw materials which mean monomers and relevant additives have been registered. MOL Petrochemicals is committed to fully respect legislation and will only use REACH compliant raw materials. At this point in time TIPOLEN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

SAFETY

See MSDS

RECYCLING

Polyethylene resins are suitable for recycling using modern recycling methods. In-house production waste should be kept clean to facilitate direct recycling.

DISCLAIMER

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