

TECHNICAL DATA SHEET

TIPOLEN EE 245-51

LDPE for extrusion and injection moulding

TIPELIN / TIPOLEN / TIPPLEN / TATREN / BRALEN+

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

DESCRIPTION

TIPOLEN EE 245-51 is a low density polyethylene copolymer with n-Butylacrylate (nBA) intended mainly for extrusion and injection moulding applications where a combination of good processability with enhanced thermal resistance and a product toughness with lower stiffness a

APPLICATIONS

TIPOLEN EE 245-51 is recommended for thin wall injection moulding, coating of parts and pipes, soft profiles and sheets, compounding.

TIPOLEN EE 245-51 is suitable for food contact and products. The product complies with Food Contact Regulation.

PROPERTIES

	Test method	Unit	Typical value
Melt Mass-Flow Rate (MFR) (190 °C /2.16 kg)	ISO 1133/A	g/10 min	7.0
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	%	180
Vicat softening Temperature *	ISO 306/A 50	°C	85
Shore D Hardness*	ISO 868		46
Flexual modulus	ISO 178	Mpa	110
Notched Izom impact (+23°C)	ISO 180/A	kJ/m ²	42
nBA Content	internal method	%	4

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 EE 245-51 can be used in conventional extrusion and injection machines.

Recommended processing melt temperatures for extrusion are 160-230 °C, for injection moulding 160-220 °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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