

TECHNICAL DATASHEET

POLYETHYLENE TIPOLEN FC 243-51

LDPE for film

DESCRIPTION

TIPOLEN FC 243-51 is a film grade of low density polyethylene with good molten stability and excellent processability. The films made of this grade have good mechanical properties. The grade does not contain any additives.

APPLICATIONS

TIPOLEN FC 243-51 is intended for general purpose films, bubble films and foamed sheets.

PRODUCT COMPLIANCE

See DDS.

PROPERTIES*

Parameter	Note	Test method	Unit	Typical value
MFR - Melt Mass-Flow Rate (190°C, 2.16 kg)	-	ISO 1133-1	g/10 min	2
Density (23°C)	3	ISO 1183-2	kg/m ³	922
Tensile Stress at Break (MD/TD)	11	ISO 527-1,3	MPa	24 / 19
Tensile Strain at Break (MD/TD)	11	ISO 527-1,3	%	300 / 600
Dart Drop	11	ISO 7765-1 method A	g	80
Haze	11	ISO 14782	%	10
Hardness - Shore D	3	ISO 868	-	51
Vicat Softening Temperature	3	ISO 306/A 120	°C	94
Melting Temperature	-	ISO 11357-3	°C	112
Crystallization temperature	-	ISO 11357-3	°C	97
Recommended Film Thickness	-	-	mm	0.02 - 0.1
Recommended Processing Temperature	-	-	°C	160 - 200

*Typical properties, not to be used as specification.

(3) Values has been measured on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291).

(11) 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 FC 243-51 can be used in conventional extrusion machines.

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STORAGE AND HANDLING

Pellets are packed in 25 kg polyethylene bags and transported on shrink-wrapped or stretch-wrapped pallets at eligible load of polymer 1375 kg. 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. Heat treated pallets are provided by PRS, a member of the Faber Halbertma Group, operating a pooling system which collects the pallets after use, and organizes reuse as part of a sustainable, circular system. PRS pallets remain property of PRS at all times. Transportation in road silo or rail silo is also available. For more detailed information please contact a sales representative at SLOVNAFT or at MOL Petrochemicals.

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 LDPE TIPOLEN does not contain any substances specifically identified as SVHC at levels greater than 0.1%.

RECYCLING

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

SAFETY

See MSDS.

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MANUFACTURER

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