

TWO COLOURS



ONE DIRECTION

Polyethylene
TIPOLEN FD 243-55
LDPE for blown film

Description

TIPOLEN FD 243-55 is a film grade of low density polyethylene. The films made of this grade have excellent mechanical and optical properties. The grade contains slip and antiblocking agents.

Applications

TIPOLEN FD 243-55 is intended for high clarity fine films, caps. Recommended film thickness is 0.04-0.08 mm.

TIPOLEN FD 243-55 is suitable for food contact and for manufacturing of toys. The product complies with Food Contact and Toy Safety Regulations.

Properties

	Test method	Unit	Typical value
Melt Mass-Flow Rate (190 °C /2.16 kg)	ISO 1133/B	g/10 min	4
Density (23 °C) *	ISO 1183-2	kg/m ³	923
Tensile Strength (MD/TD) **	ISO 527-3	MPa	20/15
Tensile Strain at Break (MD/TD) **	ISO 527-3	%	250/550
Dart Drop **	ISO 7765-1	g	90
Haze **	ISO 14 782	%	10
Vicat Softening Temperature *	ISO 306/A120	°C	92
Shore D Hardness *	ISO 868	-	48
Slip agent content	Internal	%	0.07
Antiblock agent content	Internal	%	0.14

Typical properties, not to be used as specification.

* Average mechanical property values of several measurements carried out on standard pressed specimens (ISO 293) conditioned at room temperature (ISO 291).

** Properties on film (MD = machine direction, TD = trans direction) - thickness of 0.04 mm, blow up ratio 2:1.

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Processing

TIPOLEN FD 243-55 can be used in conventional film extrusion machines. Recommended processing temperature 170-190 °C.

Storage and Handling

Pellets are packed in 25 kg PE-LD bags and transported on stretch-wrapped pallets at load of polymer 1375 kg. Heat treated pallets are available as well. Transportation in a road silo or rail silo is also available. For more detailed information please contact Slovnaft Petrochemicals s.r.o. and TVK Plc. 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, catalysts and most additives have been registered. Slovnaft Petrochemicals s.r.o./TVK Plc. is committed to fully respect this new legislation and will only use REACH compliant raw materials. At this point in time LDPE BRALEN/TIPOLEN do 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

The information provided in this publication has been compiled to the best of our present knowledge. However, in view of the various applications of polyethylene resins and the equipments used, the processing conditions may differ.

The recommendations and data herein are to be construed as informative only and do not relieve users from carrying out their own tests and experiments prior to processing in order to check suitability for a specific use. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed. Our products are under continuous development, therefore we reserve the right to change the information presented in this brochure at our own discretion.

The REACH statement herein does not constitute legal advice. The REACH statement is provided for informational purpose only.

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