

Polyethylene HDPE TR-144

DESCRIPTION:

HDPE TR-144, copolymer of ethylene and hexene is tailored for blown film production. Extraordinary melt toughness made possible to get film down to 0.006 mm thickness. Extruded film has high impact resistance, good tear strength, excellent antiblock and good barrier properties, low gel content and excellent sealing and printing properties.

PROCESSING RECOMMENDATIONS:

Processing temperature: 195 – 220 °C

Blow-up ratio: 3.5–5:1

Neck height: 6 -10 times die diameter

PROPERTIES:

PROPERTY	TEST METHOD	UNIT	NOMINAL VALUE
MELT FLOW RATE	EN ISO 1133-1 190°C / 2.16 kg	g/10 min	0.18
DENSITY	EN ISO 1183-2	kg/m ³	947
TENSILE STRENGTH AT BREAK	EN ISO 527-2 EN ISO 527-3	MPa	32 40/32**
TENSILE STRENGTH AT YIELD	EN ISO 527-2 EN ISO 527-3	MPa	21 24/19**
ELONGATION AT BREAK	EN ISO 527-2 EN ISO 527-3	%	900 550/690**
IZOD IMPACT STRENGTH	EN ISO 180	kJ/m ²	14 no fracture
SHORE D HARDNESS	EN ISO 868	Shore D	69
ESC RESISTANCE , F ₅₀	EN ISO 22088-3 method B ASTM D 1693	h	> 1000
DART DROP	ASTM D 1709 EN ISO 7765-1	g	80*
TEAR STRENGHT (ELMENDORF)	ASTM D 1922	g/mil	25/550**

*Result s obtained on film of 25 µm; blow-up ratio: 1:4

**Results obtained on film sample in MD/TD direction (MD - machine direction; TD – transversal direction) SRPS – national standard

The values in this review are characteristic and are provided for guidance purposes only.

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APPLICATION:

HDPE TR-144 is suitable for production of composite films, carrier bags and other kinds of packaging. It is also recommended for blow moulding of small and medium size containers.

HDPE TR-144 has Health Certificate issued by Institute for Health Protection of country of origin. Also, **HDPE TR-144** has Statement of Conformity, which declares product's conformity with the European norms for materials intended to come into contact with foodstuffs.

STORAGE:

Polymer pellets are packed in LDPE bags, each bag weighs 25 kg. Bags are arranged on pallets and wrapped in stretch foil. One pallet has total polymer weight of 1250 kg.

Polyethylene is combustible material, therefore fire prevention measures in warehouses should be applied. Keep the polymer protected from harmful influences of heat, direct sunlight and high atmospheric humidity during storage.

If resin is stored under unfavourable conditions of large fluctuation in ambient temperature and atmospheric humidity, atmospheric moisture can condense inside the packaging. In such case, it is recommended to dry pellets before use.

The producer has no responsibility for any damage caused with the inappropriate storage.

REACH:

The applying of the existing standards ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO 50001:2011, follows completely the highest standards by which there are regulated environmental protection and human health and safety protection and herewith it expresses its intention to meet all the requirements which are prescribed by REACH regulation.

Registration of all the substances of potential export interest has been made with European Agency for Chemicals in Helsinki, in accordance with the prescribed deadlines, therefore in this way it enables further undisturbed placement and sale products without any limits at EU Market.

RECYCLING:

Polyethylene is a material suitable for recycling.

The waste, that could appear during processing, should be kept clean before new usage through direct recycling.

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