



PETROHEMIJA

HIPLEX® TR-144

DESCRIPTION:

HIPLEX® 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:

HIPLEX® 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.

HIPLEX® TR-144 has *Health Certificate* issued by Institute for Health Protection of Serbia. Also, **HIPLEX® TR-144** has *Statement of Conformity*, which declares product's conformity with the European norms for materials intended to come into contact with foodstuffs. *Statement of Conformity* is issued by National Laboratory of Health, Environment and Foods, Maribor, Slovenia.

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:

„HIP-Petrohemija“ a.d. Pancevo, Serbia, with applying the existing standards ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 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 of „HIP-Petrohemija“ a.d. products without any limits at EU Market.

As the only representative for „HIP-Petrohemija“ a.d. in EU, pursuant to Article 8 of REACH regulation, there has been designated **ReachLaw Ltd., Helsinki, Finland.**

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.

CONTACT:

Sale:

T: +381 13 341 874

F: +381 13 347 173

E: polyolefins.sales@hip-petrohemija.rs

Technical information:

T: +381 13 341 874

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