

## **HIPLEX<sup>®</sup> TR-144**

### **DESCRIPTION:**

**HIPLEX<sup>®</sup> 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	SRPS ISO 1133 condition D (ISO 1133 190 °C, 2.16 kg)	g/10 min	0.18
DENSITY	SRPS G.S2.510 method D (ISO 1183)	kg/m <sup>3</sup>	947
TENSILE STRENGTH AT BREAK	SRPS G.S2.734 (film) SRPS G.S2. 612 (plate) (ISO 527)	MPa	MD/TD 40/32 32
TENSILE STRENGTH AT YIELD	SRPS G.S2.734 (film) SRPS G.S2. 612 (plate) (ISO 527)	MPa	MD/TD 40/32 21
ELONGATION AT BREAK	SRPS G.S2.734 (film) SRPS G.S2. 612 (plate) (ISO 527)	%	MD/TD 550/690 900
IZOD IMPACT STRENGTH	SRPS G.S2. 617 (ISO 180)	kJ/m <sup>2</sup>	no break
SHORE D HARDNESS	SRPS/ISO 868 (ISO 868)	Shore D	64
VICAT SOFTENING POINT	SRPS/ISO 306 (ISO 306)	°C	124
ESC RESISTANCE , F <sub>50</sub>	SRPS G.S2. 623 condition B (ASTM D 1693)	h	> 1000
DART DROP	SRPS G.E4.111 (ASTM D 1709)	g	80
TEAR STRENGTH (ELMENDORF)	SRPS G.E4.111 (ASTM D 1922)	g/mil	MD/TD 70/700

*SRPS – national standard*

*MD - machine direction; TD – transversal direction*

***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 Institute for Public Health, 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 9001:2008, ISO 14001:2004 and OHSAS 18001:2007, 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.

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