



HIPLEX[®] HUM 45010

DESCRIPTION:

HIPLEX[®] HUM 45010, copolymer of ethylene and hexene, with ultra high molecular weight and medium molecular weight distribution, is specially tailored for production of technical parts.

HIPLEX[®] HUM 45010 has very high wear resistance, very good sliding behaviour and high impact resistance even at low temperature.

HIPLEX[®] HUM 45010 is in granular form.

PROCESSING RECOMMENDATIONS:

Processing temperature: 190 – 220 °C

PROPERTIES:

PROPERTY	TEST METHOD	UNIT	NOMINAL VALUE
MELT FLOW RATE	SRPS ISO 1133 condition G (ISO 1133 190 °C/ 21.6 kg))	g/10 min	max. 1.0
DENSITY	SRPS G.S2.510 method D (ISO 1183)	kg/m ³	949
TENSILE STRENGTH AT BREAK	SRPS G.S2.612 (ISO 527)	MPa	22
TENSILE STRENGTH AT YIELD	SRPS G.S2.612 (ISO 527)	MPa	38
ELONGATION AT BREAK	SRPS G.S2.612 (plate) (ISO 527)	%	750
IZOD IMPACT STRENGTH	SRPS G.S2.617 (ISO 180)	kJ/m ²	no break
SHORE D HARDNESS	SRPS/ISO 868 (ISO 868)	Shore D	66
VICAT SOFTENING POINT	SRPS/ISO 306 (ISO 306)	°C	128
ESC RESISTANCE , F ₅₀	SRPS G.S2.623 condition B (ASTM D 1693)	h	min. 1000
FLEXURAL MODULUS	SRPS G.S2.614 (ISO 178)	MPa	1100

SRPS – national standard

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

**APPLICATION:**

HIPLEX® HUM 45010 is recommended for rods, thick-walled pipe and sheet, for machining into articles for a wide range of applications, especially technical parts.

HIPLEX® HUM 45010 has *Health Certificate* issued by Institute for Health Protection of Serbia.

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.

CONTACT:**Sale:**

T: +381 13 343 054

F: +381 13 351 407

E: sales@hip-petrohemija.rs

Technical information:

T: +381 13 307 097

F: +381 13 313 806

E: lab@hip-petrohemija.rs

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