

HIPLEX[®] HXM 50100

DESCRIPTION:

HIPLEX[®] HXM 50100, copolymer of ethylene and hexene, extra high molecular weight and medium molecular weight distribution, is material with the best balance of stress cracking resistance, rigidity and melt strength. **HIPLEX[®] HXM 50100** has very good processability.

PROCESSING RECOMMENDATIONS:

Processing temperature: 180 – 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	10
DENSITY	SRPS G.S2.510 method D (ISO 1183)	kg/m ³	950
TENSILE STRENGTH AT BREAK	SRPS G.S2. 612 (ISO 527)	MPa	30
TENSILE STRENGTH AT YIELD	SRPS G.S2. 612 (ISO 527)	MPa	26
ELONGATION AT BREAK	SRPS G.S2. 612 (plate) (ISO 527)	%	700
IZOD IMPACT STRENGTH	SRPS G.S2. 617 (ISO 180)	kJ/m ²	no break
SHORE D HARDNESS	SRPS/ISO 868 (ISO 868)	Shore D	64
VICAT SOFTENING POINT	SRPS/ISO 306 (ISO 306)	°C	127
ESC RESISTANCE , F ₅₀	SRPS G.S2. 623 condition B (ASTM D 1693)	h	min. 500
FLEXURAL MODULUS	SRPS G.S2.614 (ISO 178)	MPa	1150

SRPS – national standard

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

APPLICATION:

HIPLEX® HXM 50100 is recommended for medium and large blow moulding products. It is suitable for the manufacture of containers for transport and storage of different chemicals. It is especially suitable for packaging of food.

HIPLEX® HXM 50100 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 and ISO 14001:2004, follows completely the highest standards by which there are regulated human health and safety protection and environmental protection and herewith it expresses its intention to meet all the requirements which are prescribed by REACH regulation.

Pre-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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