

# LOW DENSITY POLYETHYLENE - HIPTEN®

HIPTEN® - commercial types

Property	Melt Flow Rate	Density	Tensile Strength at Yield	Tensile Strength at Break	Elongation	Hardness	Vicat Softening Point	Dart Drop (F50 method A)	Tear Strength (Elmendorf)	Additives	Application
Method	EN ISO 1133-1 190°C / 2.16 kg	EN ISO 1183-2	EN ISO 527-3 EN ISO 527-2	EN ISO 527-3 EN ISO 527-2	EN ISO 527-3 EN ISO 527-2	EN ISO 868	EN ISO 306	ASTM D 1709 EN ISO 7765-1	ASTM D 1922		
Unit	g/10 min	kg/m <sup>3</sup>	MPa	MPa	%	Shore D	°C	g	g/mil		

## FILM

22003	0.3	921	MD/TD -/11** 10	MD/TD 26/23** 18	MD/TD 250/500** 700	46	98	180*	MD/TD 200/200**	-	Heavy duty bags Agricultural films Shrink film
22006	0.6	922	MD/TD -/11** 10	MD/TD 28/22** 16	MD/TD 200/400** 650	46	98	150*	MD/TD 450/200**	-	Shrink film Flexible pipe extrusion
21018 A6	2.0	921	MD/TD -/10** 9	MD/TD 23/18** 12	MD/TD 300/500** 550	46	96	120*	MD/TD 300/300**	AO AB S	General purpose film

## INJECTION MOULDING

21015	1.5	921	10	14	550	44	96	-	-	-	Injection moulding of general purpose articles Film extrusion for noncritical applications
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HIPTEN® - types on request under commercial sustainable conditions

## FILM

22007 A17	0.7	922	MD/TD -/11** 10	MD/TD 28/22** 16	MD/TD 200/400** 650	46	98	150*	MD/TD 400/200**	AO AB S	Film for milk packaging Shrink film Carrier bags
22020	2.0	921	MD/TD -/12** 9	MD/TD 23/18** 12	MD/TD 300/500** 550	46	96	120*	MD/TD 250/300**	-	Laminating

## INJECTION MOULDING

21010	1.0	921	10	16	650	45	97	-	-	-	Injection moulding of general purpose small articles Film extrusion for noncritical applications
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The values given in this review are typical and are provided for guidance purposes only.

**ADDITIVES:** AO - antioxidant  
AB - antiblock  
S - slip agent

**NOTES:** \* results obtained at 40 µm film sample; blowup ratio 2.7:1  
\*\* results obtained at film sample in MD/TD direction  
MD – machine direction; TD – transversal direction

All HIPTEN® types have Health Certificate ie 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 Food, Maribor, Slovenia.

## LOW DENSITY POLYETHYLENE - HIPTEN®:

It is produced in the HIP-Petrohemija under the licence from National Distillers Co (USA), and engineering made by Foster Wheeler (USA).

### STORAGE

Polymer pellets are packed in classical or valve 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 influence 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.

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F: +381 13 347 173  
E: polyethylenes.sales@hip-petrohemija.rs

**Technical information:**  
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E: customer.support@hip-petrohemija.rs

**Address:**  
HIP-Petrohemija d.o.o. Pancevo  
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Website: www.hip-petrohemija.com

## REACH

HIP-Petrohemija with applying the existing standards ISO 9001, ISO 14001, ISO 45001 and ISO 50001 follows completely the highest standards by which human health and safety protection and environmental protection are regulated 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 undisturbed placement and sale of HIP-Petrohemija's products without any limits at EU Market.

As the Only Representative for HIP-Petrohemija in EU, according to Article 8 of REACH regulation, ReachLaw Ltd, Helsinki, Finland has been designated.

### 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.

