

HIGH DENSITY POLYETHYLENE — HIPLEX®

Property	Melt Flow Rate	Density	Tensile Strength at Yield	Tensile Strength at Break	Elongation	Izod Impact Strength	Hardness	ESC Resistance	Dart Drop (F50 method A)	Tear Strength (Elmendorf)	Application - commercial use of materials
Method	EN ISO 1133-1 190°C / 2.16 kg	EN ISO 1183-2	EN ISO 527-2 EN ISO 527-3	EN ISO 527-2 EN ISO 527-3	EN ISO 527-2 EN ISO 527-3	EN ISO 180	EN ISO 868	EN ISO 22088-3 method B ASTM D 1693	ASTM D 1709 EN ISO 7765-1	ASTM D 1922	
Unit	g/10 min	kg/m³	MPa	MPa	%	kJ/m²	Shore D	h	g	g/mil	
EXTRUSION BLOW MOULDING											
HHM 5502	0.35	955	27	28	800	13	65	40	-	-	Small and medium size containers
HHM 5202	0.20	951	24	30	800	100	64	min 100	-	-	Small and medium size containers for surface active agents
HXM 50100	10***	950	26	30	700	14 no fracture	64	>500	-	-	Medium and large size containers
FILM											
TR 144	0.18	947	21 MD/TD 24/19**	32 MD/TD 40/32**	900 MD/TD 550/690**	14 no fracture	69	>1000	80*	MD/TD 25/550**	Tubular film
TR 130	0.18	940	18 MD/TD 24/19**	32 MD/TD 43/33**	800 MD/TD 550/700**	18 no fracture	58	>1000	88*	MD/TD 45/700**	Tubular film

HIPLEX HXM50100 - type on request under commercial sustainable conditions

The values given in the review above are typical and are provided for guidance purposes only.
All HIPLEX® types are in pellet form if it is not specified otherwise.

NOTES: * results obtained at 25 µm film sample; blowup ratio 1:4
** results obtained at film sample in MD/TD direction
MD – machine direction; TD – transversal direction
*** melt flow rate 190°C / 21.6 kg
**** melt flow rate 190°C / 5 kg

All HIPLEX® 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.

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HIGH DENSITY POLYETHYLENE — HIPLEX®

It is produced in the HIP-Petrohemija under the licence from Phillips Petroleum Co (USA) and engineering made by Crawford & Russell (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-hood 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.

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, BD&I (Business Development & Intelligence srl), 92, rue Omer Lepreux B-1081 Bruxelles, Belgium 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.

LOW DESITY POLYETHYLENE — HIPTEN®

Property	Melt Flow Rate	Density	Tensile Strength at Yield	Tensile Strength at Break	Elongation	Hardness	Vicat Softening Point	Dart Drop (F50 method A)	Tear Strenght (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/m³	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** 10	MD/TD 23/18** 12	MD/TD 300/500** 550	46	96	120*	MD/TD 300/300**	AO AB S	General purpose 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											
21015	1.5	921	10	14	550	44	96	-	-	-	Injection moulding of genera purpose articles Film extrusion for noncritical applications
21010	1.0	921	10	16	650	45	97	-	-	-	Injection moulding of genera purpose small articles Film extrusion for noncritical applications

HIPTEN: 22007 A17, 22020, 21010 - types on request under commercial sustainable condition

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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
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STORAGE

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