

HIGH DENSITY POLYETHYLENE - HIPLEX®

HIPLEX® - commercial types

| Property | Melt Flow Rate | Density | Tensile Strength at Yield | Tensile Strength at Break | Elongation | Izod Impact Strength | Hardness | Vicat Softening Point | ESC Resistance | Dart Drop F ₅₀ *** | Tear Strength (Elmendorf) | Application - commercial use of materials |
|----------|-------------------------------------|--------------------|--|--|--|----------------------|-----------------|-----------------------|---------------------|-------------------------------|---------------------------|---|
| Method | SRPS EN ISO 1133 190°C / 2.16 kg | SRPS EN ISO 1183-2 | SRPS EN ISO 527-2 SRPS EN ISO 527-3 | SRPS EN ISO 527-2 SRPS EN ISO 527-3 | SRPS EN ISO 527-2 SRPS EN ISO 527-3 | SRPS EN ISO 180 | SRPS EN ISO 868 | SRPS EN ISO 306 | SRPS EN ISO 22088-3 | ASTM D 1709 | ASTM D 1922 | |
| Unit | g/10 min | kg/m ³ | MPa | MPa | % | J/m | Shore D | °C | h | g | g/0.0254 mm | |

EXTRUSION BLOW MOULDING

| | | | | | | | | | | | | |
|----------|------|-----|----|----|-----|-----|----|-----|---------|---|---|--|
| HHM 5502 | 0.35 | 955 | 28 | 27 | 800 | 80 | 65 | 127 | 40 | - | - | Small and medium size containers |
| HHM 5202 | 0.20 | 951 | 30 | 24 | 800 | 100 | 64 | 126 | min 100 | - | - | Small and medium size containers for surface active agents |

FILM

| | | | | | | | | | | | | |
|--------|------|-----|----------------------|----------------------|-------------------------|----------|----|-----|-------|----|---------------|--------------|
| TR 144 | 0.18 | 947 | 32 MD/TD 40/32*** | 21 MD/TD 24/19*** | 900 MD/TD 550/690*** | no break | 64 | 124 | >1000 | 80 | MD/TD 70/700 | Tubular film |
| TR 130 | 0.18 | 940 | 32 MD/TD 43/33*** | 18 MD/TD 24/19*** | 900 MD/TD 550/700*** | no break | 58 | 120 | >1000 | 88 | MD/TD 110/650 | Tubular film |

PIPE EXTRUSION

| | | | | | | | | | | | | |
|--------------|--------|-----|----|----|-----|----|----|-----|------|---|---|-----------------------------------|
| TR 455 natur | 0.50** | 945 | 30 | 22 | 800 | 15 | 64 | 124 | 5000 | - | - | Gas pipes and potable water pipes |
|--------------|--------|-----|----|----|-----|----|----|-----|------|---|---|-----------------------------------|

HIPLEX® - types on request under commercial sustainable conditions

EXTRUSION BLOW MOULDING

| | | | | | | | | | | | | |
|-----------|-----|-----|----|----|-----|----------|----|-----|------|---|---|----------------------------------|
| HXM 50100 | 10* | 955 | 30 | 26 | 700 | no break | 64 | 127 | >500 | - | - | Medium and large size containers |
|-----------|-----|-----|----|----|-----|----------|----|-----|------|---|---|----------------------------------|

COMPRESSION MOULDING

| | | | | | | | | | | | | |
|------------------|-----|-----|----|----|-----|----------|----|-----|-------|---|---|-----------------|
| HUM 45010 powder | <1* | 945 | 38 | 22 | 750 | no break | 66 | 128 | >1000 | - | - | Technical parts |
|------------------|-----|-----|----|----|-----|----------|----|-----|-------|---|---|-----------------|

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

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

All HIPLEX® types have Health Certificate issued by Institute for Health Protection of Serbia. Types HHM 5502, HHM 5202, TR 144, TR 130 also have 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.

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 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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REACH

HIP-Petrohemija with applying the existing standards ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 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.

