



KERMANSHAH POLYMER COMPANY

Plant : **KERMAPOL**

Grade/Product Name : **BL3/HF4760**

Catalyst : **THT**

**Technical Data**

**Product Description**

HF4760 is a high-density Polyethylene with 1-Butene as a co-monomer.

**Application:**

Containers with capacities ranging from a few ml up to 10 liters, for Production of sheets for thermoforming

**General**

|                                              |                                                                                                                                                                                              |                           |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Additive                                     | <ul style="list-style-type: none"><li>• Antioxidant, Lubricant</li></ul>                                                                                                                     |                           |
| Features                                     | <ul style="list-style-type: none"><li>• High stiffness</li><li>• Good flow ability</li><li>• Good impact strength</li><li>• Good stress cracking resistance</li><li>• High Density</li></ul> |                           |
| Forms                                        | <ul style="list-style-type: none"><li>• Pellet</li></ul>                                                                                                                                     |                           |
| Processing Method                            | <ul style="list-style-type: none"><li>• Small Blow Molding</li></ul>                                                                                                                         |                           |
| Physical                                     | Nominal Value                                                                                                                                                                                | Unit Test Method          |
| Density <sup>1)</sup>                        | 0.954±0.002                                                                                                                                                                                  | g/cm <sup>3</sup> ISO1183 |
| Melt Mass-Flow Rate (MFR) (190°C/5 kg)       | 1.2±0.3                                                                                                                                                                                      | g/10 min ISO1133          |
| Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)    | 23±4                                                                                                                                                                                         | g/10 min ISO1133          |
| Flow Rate Ratio (21.6 kg/5 kg) <sup>2)</sup> | 19±3                                                                                                                                                                                         | -                         |
| Impact                                       | Nominal Value                                                                                                                                                                                | Unit Test Method          |
| Notched Impact (23°C) <sup>3)4)</sup>        | 9mJ/mm <sup>2</sup>                                                                                                                                                                          | ISO179/1 eA               |
| Swell Ratio                                  | 110±15%                                                                                                                                                                                      |                           |

1) Test specimen from compression moulded sheet at 23 °C, samples not annealed

2) FRR values are statistical and calculated by dividing MFR values

3) Test specimen from compressed moulded sheet 23°C

4) The data quoted are average values