

# MedEco IPI C6

## Technical Datasheet

### Product description

MedEco IPI C6 is a > 99 % bio-based HDPE material for injection molding in white. It offers excellent processability, high flowability, and outstanding robustness. Ideal for demanding applications such as closure caps and functional medical technology components.

### Material properties

All values given are indicative. The data was measured on test objects and may vary due to product-specific geometry and process characteristics.

| Properties                     | Method       | Condition                     | Value | Unit              |
|--------------------------------|--------------|-------------------------------|-------|-------------------|
| Density                        | ISO 1183     |                               | 0.96  | g/cm <sup>3</sup> |
| MFR                            | ISO 1133-A   | 190 °C/ 2.16 kg               | 25    | g/10min           |
| Tensile strength               | ISO 527-1/1A |                               | 26    | N/mm <sup>2</sup> |
| Elongation at break            | ISO 527-1/1A |                               | 120   | %                 |
| Young's modulus                | ISO 527-1/1A |                               | 1100  | N/mm <sup>2</sup> |
| Charpy impact strength         | ISO 179/1eU  | 23 °C                         | > 99  | kJ/m <sup>2</sup> |
| Charpy notched impact strength | ISO 179/1eA  | 23 °C                         | 2.4   | kJ/m <sup>2</sup> |
| HDT-B                          | ISO 75-1     | 0.45 N/mm <sup>2</sup>        | 70    | °C                |
| Water absorption               | ISO 62       | 23 °C, H <sub>2</sub> O, 24 h | 0.02  | %                 |

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### Storage and drying conditions

Store the material in an airtight container in a dry, cool place. Protect it from heat, direct sunlight, sources of ignition, and moisture. Do not store it outdoors. Use the material within six months of delivery. Dry the material for at least two hours at 80 °C. Process dried MedEco IPI C6 promptly or store the material briefly in closed containers.

### Packaging

The product is available in 25-kg bags or big bags. Samples are supplied in 25-kg bags. It is available worldwide.

### Processing instructions

| Parameter                    | min | max | Initial value | Unit |
|------------------------------|-----|-----|---------------|------|
| Periphery temperature        | 15  | 60  | 25            | °C   |
| Feed zone temperature        | 160 | 200 | 180           | °C   |
| Compression zone temperature | 180 | 230 | 200           | °C   |
| Metering zone temperature    | 180 | 250 | 210           | °C   |
| Nozzle temperature           | 180 | 250 | 210           | °C   |
| Mold temperature             | 20  | 70  | 30            | °C   |
| Melt temperature             | 200 | 250 | 200           | °C   |

### Questions?

Ask your contact or email [be-green@biovox.systems](mailto:be-green@biovox.systems)