

TECHNICAL DATA SHEET

M106

Polypropylene Homopolymer

Characteristics

M106 is a **Polypropylene Homopolymer**, produced by the latest generation **Spheripol Technology**. This homopolymer is primarily suitable for **Injection Molding Process**.

M106 combines **easy processability with high strength**.

Application

- **General Purpose Injection Molding**

| Property | Test Method | Unit | Value |
|--|--|-------------------|-------|
| Melt Flow Index (2.16 kg & 230 ⁰ C) | ASTM D 1238 | g/10 min | 6 |
| Density at 23°C | ASTM D 1505 | g/cm ³ | 0.90 |
| Tensile Strength at Yield | ASTM D 638 * (Type I - with Extensometer) | MPa | 30 |
| Tensile Elongation at Yield | | % | 7 |
| Flexural Modulus | ASTM D 790 | MPa | 1300 |
| Izod Impact Strength (Notch, 23°C) | ASTM D 256 | J/m | 35 |
| Vicat Softening Point (10N) | ASTM D 1525 | ⁰ C | 153 |
| Heat Deflection Temperature (0.46 N/m ²) | ASTM D 648 | ⁰ C | 93 |

Typical Processing Temperature

| | | |
|--------------------|----------------|-----------|
| Barrel Temperature | ⁰ C | 180 - 260 |
| Mold Temperature | ⁰ C | 30 - 40 |

** Mechanical properties tested on Injection Molded Test Specimens (Type I)*

The above typical properties are not to be construed as Specifications and may change without any prior notice. The User will solely be responsible for any intended process / product usage and HPL does not guarantee or undertake any responsibility for any consequential damage or loss based on the information given above.