

Moplen HP500L

Polypropylene Homopolymer
Shazand (Arak) Petrochemical Corporation

Message:

Moplen HP500L is a polypropylene homo-polymer for injection moulding. Moplen HP500L offers good flow properties, easy processing & high stiffness. The main applications of Moplen HP500L are house wares, small containers, crates, garden furniture, stadium seats, toys, caps & closures. Other major applications are components for appliances & parts for the automotive industry.

* Moplen HP500L is suitable for food contact.

| General Information | | | |
|---|---------------------------|----------|-------------|
| Features | Food Contact Acceptable | | |
| | Good Flow | | |
| | Good Processability | | |
| | High Stiffness | | |
| | Homopolymer | | |
| Uses | Appliance Components | | |
| | Automotive Applications | | |
| | Caps | | |
| | Closures | | |
| | Containers | | |
| | Crates | | |
| | Furniture | | |
| | Household Goods | | |
| | Lawn and Garden Equipment | | |
| | Seats | | |
| | Toys | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 6.0 | g/10 min | ASTM D1238 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 100 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 35.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 12 | % | ASTM D638 |
| Flexural Modulus | 1500 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C) | 30 | J/m | ASTM D256 |
| Aging | Nominal Value | Unit | Test Method |

| Oven Aging (150°C) | 15.0 | day | ASTM D3012 |
|--|------------------|------|-------------------------|
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 94.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 154 | °C | ASTM D1525 ¹ |
| NOTE | | | |
| 1. | Loading 1 (10 N) | | |

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