

Technical Data Sheet

Moplen HP648T

Polypropylene, Homopolymer

Product Description

Moplen HP648T is a homopolymer used in injection molding. This grade is characterized by a high flow, medium stiffness combined with a Nucleation and an antistatic additivition.

Moplen HP648T is typically used by customers in houseware, TWIM food and Non-food containers.

This grade is not intended for medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

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| Application | Caps & Closures; Housewares; TWIM Food Containers; TWIM Non-food Containers |
| Market | Rigid Packaging |
| Processing Method | Injection Molding |
| Attribute | Contains Antistat; Good Stiffness; High Flow; Nucleated |

| Typical Properties | Nominal Value | Units | Test Method |
|--|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 53 | g/10 min | ISO 1133-1 |
| Density, (23 °C) | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Tensile Modulus | 1600 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 35 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | >50 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 8 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 2 | kJ/m ² | ISO 179 |
| Thermal | | | |
| Vicat Softening Temperature, (A50) | 154 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 95 | °C | ISO 75B-1, -2 |