

Technical Data Sheet

Moplen RP410M HP

Polypropylene, Specialty Products

Product Description

Moplen RP410M HP is a controlled rheology medium modified polypropylene random copolymer. It does not contain slip and anti-blocking additives. It is produced with a non-phthalate based catalyst.

Moplen RP410M HP is typically used for manufacturing cast films and BOPP films. Customers adopt this grade to manufacture the sealing layer of mono-material retortable films (low sealing temperature and good heat resistance), which can find their use in pouches for food applications.

Moplen RP410M HP exhibits good processability and optical properties.

This grade is supported for use in drinking water applications.

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| Application | Bags & Pouches; Food Packaging Film; Lamination Film; Textile Packaging Film |
| Market | Flexible Packaging |
| Processing Method | BOPP; Cast Film |
| Attribute | Controlled Rheology; Good Heat Seal; Good Sealing Strength; High Clarity; Retortable |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|---------------|
| Physical | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 7.0 | g/10 min | ISO 1133-1 |
| Density | 0.90 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | |
| Flexural Modulus | 850 | MPa | ISO 178 |
| Tensile Stress at Break | 26 | MPa | ISO 527-1, -2 |
| Tensile Stress at Yield | 25 | MPa | ISO 527-1, -2 |
| Tensile Strain at Break | 650 | % | ISO 527-1, -2 |
| Tensile Strain at Yield | 14 | % | ISO 527-1, -2 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C) | 7 | kJ/m ² | ISO 179-1/1eA |
| (0 °C) | 2 | kJ/m ² | ISO 179-1/1eA |
| Thermal | | | |
| Vicat Softening Temperature, (A/50) | 137 | °C | ISO 306 |
| Heat Deflection Temperature B, (0.45 MPa, Unannealed) | 70 | °C | ISO 75B-1, -2 |