

## 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.

<b>Status</b>	Commercial: Active
<b>Availability</b>	Africa-Middle East; Europe
<b>Application</b>	Bags & Pouches; Food Packaging Film; Lamination Film; Textile Packaging Film
<b>Market</b>	Flexible Packaging
<b>Processing Method</b>	BOPP; Cast Film
<b>Attribute</b>	Controlled Rheology; Good Heat Seal; Good Sealing Strength; High Clarity; Retortable

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate, (230 °C/2.16 kg)	7.0	g/10 min	ISO 1133-1
Density	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>			
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
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	7	kJ/m <sup>2</sup>	ISO 179-1/1eA
(0 °C)	2	kJ/m <sup>2</sup>	ISO 179-1/1eA
<b>Thermal</b>			
Vicat Softening Temperature, (A/50)	137	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	70	°C	ISO 75B-1, -2