

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.

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