



## Moplen HP2973

### Polypropylene, Homopolymer

#### Product Description

Moplen HP2973 is a modified polypropylene homopolymer designed for the production of BOPP films at very high speed. BOPP films produced with HP2973 feature good mechanical properties, excellent barrier against moisture, odours, oxygen, and good transparency and gloss. Coextruded films made of Moplen HP2973 are widely used in the food packaging industry.

Moplen HP2973 is formulated with slip agent and antistatic.

For regulatory information please refer to Moplen HP2973 Product Stewardship Bulletin (PSB).

#### Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	BOPP, Double Bubble
Features	Antistatic, Moisture Barrier, High Clarity, High Gloss , Homopolymer, Low to No Odor, Unspecified Slip
Typical Customer Applications	Barrier Film, Film, Food Packaging Film, Surface Protection Film, Textile Packaging Film

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.900	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	2.0	g/10 min
<b>Mechanical</b>			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	1450	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	34.0	MPa
Tensile Strain at Break (50 mm/min)	ISO 527-1, -2	410	%
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	10	%
<b>Hardness</b>			
Shore hardness (Shore D)	ISO 868	70	
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	88.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	152	°C

#### Additional Properties

Typical Film Properties of monolayer film produced on T.M. Long equipment, a laboratory simultaneous film stretcher (7x7@150°C):

Tensile Tangent Modulus (0-1%), MA 18068, 5 mm/min, 20 µm: 2400 MPa

Stress at Break, MA 18068, 50 mm/min, 20 µm: 116 MPa

Elongation at Break, MA 18068, 50 mm/min, 20 µm: 29%

#### Notes

Typical properties; not to be construed as specifications.