

# Moplen RP225M

### Polypropylene, Random Copolymer

#### **Product Description**

"Moplen" RP225M is a controlled rheology medium modified propylene random copolymer for manufacturing high transparent cast films. The product contains slip and anti-block agents. It offers good processability, excellent clarity and gloss and exhibits very good heat weldability. Main applications are packaging of foodstuffs, packaging of stationary, shirts and hosiery. It is also suitable for production of stationary folders. "Moplen" RP225M is suitable for food contact.

For regulatory information please refer to "Moplen" RP225M Product Stewardship Bulletin ( PSB

### **Product Characteristics**

Status Commercial: Active

**Test Method used** ISO ASTM

**Availability** Europe, Africa-Middle East

**Processing Methods** Cast Film

Unspecified Antiblocking , High Clarity, Controlled Rheology, Random Copolymer, High Gloss , Good **Features** 

Processability, Unspecified Slip, Weldable

Cast Film, Food Packaging Film, Stationery Film, Textile **Typical Customer Applications** 

Packaging Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	8.0	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	700	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	23.0	MPa
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	12	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		9.0	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		1.5	kJ/m²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	60.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	120	°C

## **Additional Properties**

Typical film properties of laboratory casting line: Gloss 45°, ASTM D 2457, 50 μm: 89 Haze, ASTM D 1003, 50 μm: <1.5% Tensile Young modulus, ASTM D 882, 25 mm/min, 50 µm: 560 MPa Stress at Yield, ASTM D 882, 500 mm/min, 50  $\mu$ m, 19.4 MPa Elongation at Yield, ASTM D 882, 500 mm/min, 50  $\mu m\colon 7.6\%$ Stress at break, ASTM D 882, 500 mm/min, 50 µm, 38 MPa Elongation at break, ASTM D 882, 500 mm/min, 50 µm: 740% Coefficient of friction, ASTM D 1894, Static: 0.2 Coefficient of friction, ASTM D 1894, Dynamic: 0.2

Typical properties; not to be construed as specifications.