

# Moplen RP310M

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

Moplen RP310M is a slightly modified propylene random copolymer for manufacturing high transparent cast films. It contains no slip or antiblocking agents. It offers excellent processability, high clarity and gloss and good heat weldability. Main applications are packaging of foodstuffs, packaging of books and stationary.

Moplen RP310M is suitable for food contact.

For regulatory information please refer to Moplen RP310M Product Stewardship Bulletin ( PSB ).

General Information			
Features	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	High Gloss		
	Random Copolymer		
	Weldable		
Uses	Cast Film		
	Film		
	Food Packaging		
	Packaging		
	Stationary Supplies		
Appearance	Clear/Transparent		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	67		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	11	%	
Break	520	%	
Coefficient of Friction			DIN 53375
vs. Itself - Dynamic	> 0.50		
vs. Itself - Static	> 0.50		
Films	Nominal Value	Unit	Test Method

Secant Modulus - MD <sup>1</sup> (50 μm)	780	MPa	ASTM D882
Tensile Strength - MD <sup>2</sup>			ASTM D882
Yield, 50 μm	20.0	MPa	
Break, 50 μm	40.0	MPa	
Tensile Elongation - MD <sup>3</sup>			ASTM D882
Yield, 50 μm	6.3	%	
Break, 50 μm	730	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	1.4	kJ/m <sup>2</sup>	
23°C	3.4	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	72.0	°C	ISO 75-2/B
Vicat Softening Temperature	139	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 μm)	91		ASTM D2457
Haze (50.0 μm)	< 1.0	%	ASTM D1003
NOTE			
1.	25 mm/min		
2.	500 mm/min		
3.	500 mm/min		

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