

# Moplen RP210G

Polypropylene Random Copolymer

LyondellBasell Industries

## Message:

"Moplen" RP210G is a medium modified polypropylene random copolymer designed for blow moulding and sheet & film extrusion. It offers low density, stress cracking resistance and high chemical resistance. Main applications are extrusion of film for packaging & sheet for stationery folders and displays, the extrusion blow moulding of high gloss monolayer bottles, clear or pigmented, for the packaging of cosmetics, detergents, chemicals and food-stuffs. "Moplen" RP210G is suitable for food contact.

General Information			
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	High ESCR (Stress Crack Resist.)		
	High Gloss		
	Low Density		
	Random Copolymer		
Uses	Blow Molding Applications		
	Bottles		
	Consumer Applications		
	Cosmetic Packaging		
	Film		
	Food Containers		
	Food Packaging		
	Packaging		
	Sheet		
	Shrink Wrap		
	Stationary Supplies		
Processing Method	Double-Bubble Film		
	Extrusion Blow Molding		
	Film Extrusion		
	Injection Blow Molding		
	Pipe Extrusion		
	Sheet Extrusion		
	Thermoforming		
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)	1.8	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	950	MPa	ISO 527-2/1
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	14	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	2.0	kJ/m <sup>2</sup>	
23°C	6.0	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	70.0	°C	ISO 75-2/B
Vicat Softening Temperature	134	°C	ISO 306/A50

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