Technical Data Sheet

Moplen RP210G

Polypropylene, Random Copolymer

Product Description

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.

Regulatory Status

For regulatory compliance information, see *Moplen* RP210G Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Commercial: Active
Availability	Africa-Middle East; Europe
Application	Bottles For Consumer Goods; Food Packaging Film; Shrink Film; Stationery Film; Thermoformed Food Containers; Wire & Cable
Market	Flexible Packaging; Wire & Cable
Processing Method	Double Bubble; Extrusion Blow Molding; Injection Blow Molding; Sheet
Attribute	Good Chemical Resistance; High ESCR (Environmental Stress Cracking Resistance); High Gloss; Low Density; Random Copolymer

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	1.8	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ISO 1183-1
Mechanical			
Flexural Modulus	850	N/mm²	ISO 178
Tensile Stress at Break, (23 °C, 50 mm/min)	28	N/mm²	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	25	N/mm²	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	600	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	14	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	12	kJ/m²	ISO 179-1/1eA
(0 °C, Type 1, Edgewise, Notch A)	3.5	kJ/m²	ISO 179-1/1eA
Thermal			
Vicat Softening Temperature, (A50)	135	°C	ISO 306
Deflection Temperature Under Load, (0.46 N/mm²)	68	°C	ISO 75B-1, -2

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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