



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.

For regulatory information please refer to "Moplen" RP210G Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	Double Bubble, Extrusion Blow Molding, Extrusion Pipe Sheet and Semi Finished Products, Injection Blow Molding
Features	Good Chemical Resistance, Random Copolymer, Low Density, High ESCR (Environmental Stress Cracking Resistance), High Gloss
Typical Customer Applications	Blow Moulding Applications, Bottles For Consumer Goods, Double Bubble Shrink Film, Food Packaging Film, Stationery Film, Thermoformed Food Containers

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	1.8	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	950	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	25.0	MPa
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	14	%
Impact			
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	6.00	kJ/m ²
(0, Type 1, Edgewise, Notch A)		2.00	kJ/m ²
Hardness			
Shore hardness (Shore D)	ISO 868	67	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	70.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	134	°C

Notes

Typical properties; not to be construed as specifications.