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.

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