

# Jampilen RP210G

Random Copolymer

JAMPILEN POLYPROPYLENE

## Description:

"Jampilen RP210G" is a medium modified polypropylene random copolymer. The product is designed for the extrusion of film and sheet and for blow molding of small and medium sized items. The processability of this grade is excellent and the items produced with it show good impact strength, good clarity and high gloss. "Jampilen RP210G" also offers the advantages typical of polypropylene: low density, stress cracking resistance (ESCR) and high chemical resistance. "Jampilen RP210G" is suitable for food contact.

## Processing Method:

Injection and extrusion blow molding  
Extrusion (Sheet, pipe, semi finished products)  
Double bubble film

## Features:

Excellent processability  
Good chemical resistance  
High gloss  
High ESCR  
Random copolymer

## Typical Applications:

Film for packaging  
Sheet for stationery folders and displays  
Blow molding of high gloss monolayer bottles, clear or pigmented, for the packaging of cosmetics, detergents, chemicals and food-stuffs  
Thermoformed food containers  
Double bubble shrink film

## Approval:

Food

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
<b>Physical</b>			
Melt Flow Rate (230 °C, 2.16kg)	1.8	g/10min	ASTM D1238
Density	0.9	g/cm <sup>3</sup>	ASTM D1505
<b>Mechanical</b>			
Flexural Modulus	1000	MPa	ASTM D790
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Yield	13	%	ASTM D638
Izod Impact Strength (notched) at 23 °C	120	J/m	ASTM D256
Rockwell Hardness	86	R Scale	ASTM D785
<b>Thermal</b>			
Vicat softening point (9.8N)	135	°C	ASTM D1525
H.D.T. (0.46 Mpa)	78	°C	ASTM D648
Accelerated oven ageing in air at 150 °C	360	hours	ASTM D3012
<b>Optical</b>			
Haze	32	%	ASTM D1003
Gloss	65	----	ASTM D2457

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# Polypropylene random copolymer

## Moplen RP210G

Typical properties	Test method (ASTM)	Unit	Value
MFR @230°C, 2.16 kg	D1238/L	gr/10min	1.8
Flexural Modulus	D790	MPa	1000
Notched Izod Impact@23°C	D256	J/m	120
Tensile Strength@Yield	D638	MPa	27
Elongation@Yield	D638	%	13
Vicat Softening Point,10N	D1525	°C	135
HDT(0.46N/mm <sup>2</sup> )	D648	°C	78
Rockwell Hardness	D785	R Scale	86
Oven Aging@150°C	D3012	Hours	360
Haze	D1003	%	32
Gloss	D523	Rating	65

➤ Values shown are averages & are not to be considered as product specifications.

### ❖ Main application & Characteristics:

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 of Moplen RP210G 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.