



Jampilen RP270G

Random Copolymer

Description:

"Jampilen RP270G" is a medium modified polypropylene random copolymer specifically designed for blow molding and sheet extrusion and complies with the European Pharmacopeia. "Jampilen RP270G" offers excellent processability in extrusion blow molding and can be converted on form-fill-seal equipment. The product is also suitable for the extrusion of film and sheet for thermoforming. "Jampilen RP270G" offers a good impact strength, good clarity and high chemical resistance.

"Jampilen RP270G" is suitable for food contact.

Processing Method:

Injection and extrusion blow molding
Extrusion (Sheet)
Blown film
Injection Molding

Features:

Medium clarity
Good impact strength
High chemical resistance
ETO sterilisable
Random copolymer

Typical Applications:

Transparent bottles and containers for blood, intravenous solutions, pharmaceutical solutions, medicines and salves packaging for health care products (toothpaste, mouthwash, saline solutions)
Film and sheet for thermoforming
Blown-fill-seal applications

Approval:

Food
Medical

TYPICAL PROPERTIES	VALUE	UNIT	METHOD
Physical			
Melt Flow Rate (230 °C, 2.16kg)	1.8	g/10min	ASTM D1238
Density	0.9	g/cm ³	ASTM D1505
Mechanical			
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
Thermal			
Vicat softening point (10N)	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
Optical			
Haze	32	%	ASTM D1003
Gloss	65	----	ASTM D2457

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Polypropylene random copolymer

Moplen RP270G

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 ²)	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 RP270G is a medium modified polypropylene random copolymer specially designed for blow moulding & sheet extrusion. Moplen RP270G complies the European pharmacopeia. Moplen RP270G offers excellent process ability in extrusion blow moulding & can be converted on form-fill-seal equipment. The Product is also suitable for the extrusion of film & sheets for thermoforming. Moplen RP270G offers a good impact strength, good clarity & high chemical resistance. The main applications of this product are transparent bottles & containers for blood, intravenous solutions, pharmaceutical solutions, medicines & salves. Other applications are packaging for health care products (toothpaste, mouthwash & saline solutions), film & sheet for thermoforming.

* Moplen RP270G is medical approved.