

SABIC® PP PCGR02

Polypropylene Random Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® PP grades for healthcare applications are produced under controlled conditions resulting in high product quality, consistency and a high level of purity.

SABIC® PP PCGR02 is a polypropylene random copolymer primarily developed for a broad range of blow moulded and extrusion applications, such as monolayer and co-extruded films, for the healthcare industry. The grade exhibits a good contact transparency, good impact strength and an excellent processability.

Typical applications:

Bottles and containers made by extrusion / injection blow moulding

General Information			
Features	Contact Clarity		
	Good Impact Resistance		
	Good Processability		
	High Purity		
	Random Copolymer		
	Wide Molecular Weight Distribution		
Uses	Bottles		
	Containers		
	Medical/Healthcare Applications		
Agency Ratings	EP Unspecified Rating		
	USP Unspecified Rating		
Appearance	Clear/Transparent		
Processing Method	Blow Molding		
	Extrusion		
	Injection Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.905	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.7	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	950	MPa	ASTM D638
--	850	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	26.0	MPa	ASTM D638

Yield	25.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	13	%	ASTM D638
Yield	12	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	3.0	kJ/m ²	
23°C	8.0	kJ/m ²	
Notched Izod Impact			
0°C	25	J/m	ASTM D256A
23°C	200	J/m	ASTM D256A
0°C	2.5	kJ/m ²	ISO 180/1A
23°C	8.0	kJ/m ²	ISO 180/1A
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		

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