

SABIC® PP PCGR25

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 PCGR25 is a highly transparent polypropylene random copolymer with good antistatic properties. This grade combines improved aesthetics of the finished articles with low melt temperature processability, enabling short cycle times. SABIC® PP PCGR25 results in excellent demoulding characteristics and has a good stiffness to impact ratio.

Typical applications:

SABIC® PP PCGR25 has been designed for injection moulding of housings for empty disposable 3-part syringes. Others applications demanding a high level of transparency and broad processing window are also possible.

General Information			
Additive	Antistatic Clarifier		
Features	Antistatic		
	Fast Molding Cycle		
	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	High Clarity		
	High Purity		
	Pleasing Surface Appearance		
	Random Copolymer		
Uses	Housings		
	Medical/Healthcare Applications		
Agency Ratings	USP Unspecified Rating		
Appearance	Clear/Transparent		
Processing Method	Injection 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)	25	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
1% Secant ¹	1150	MPa	ASTM D638
--	1050	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield ²	28.0	MPa	ASTM D638

Yield	25.0	MPa	ISO 527-2/1A/50
Tensile Elongation			
Yield ³	13	%	ASTM D638
Yield	13	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	2.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Notched Izod Impact			
0°C	30	J/m	ASTM D256A
23°C	50	J/m	ASTM D256A
0°C	2.0	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
NOTE			
1.	1.0 mm/min		
2.	50 mm/min		
3.	50 mm/min		

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