

# SABIC® PP PCGR25

PP RANDOM COPOLYMER

## DESCRIPTION

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. Compliance to regulations: SABIC® PP PCGR25 complies with the food contact regulations and the relevant monographs of the US Pharmacopoeia. The product mentioned herein may not be used for medical healthcare devices or materials intended for temporary or permanent implementation in the human body

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate</b>			
at 230 °C and 2.16 kg	25	dg/min	ISO 1133
<b>Density</b>	905	kg/m <sup>3</sup>	ASTM D1505
<b>Molecular Weight Distribution</b>	Narrow	-	-
<b>FORMULATION</b>			
<b>Anti static agent</b>	☑	-	-
<b>Clarified</b>	☑	-	-
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield <sup>(1)</sup>	25	MPa	ISO 527-2 1A
strain at yield	13	%	ISO 527-2 1A
tensile modulus <sup>(2)</sup>	1050	MPa	ISO 527-2 1A
<b>Izod impact notched</b>			
at 23 °C	5.0	kJ/m <sup>2</sup>	ISO 180/1A
at 0 °C	2.0	kJ/m <sup>2</sup>	ISO 180/1A
<b>Charpy Impact Strength Notched</b>			
at 0 °C	2.0	kJ/m <sup>2</sup>	ISO 179/1eA
at 23 °C	6.0	kJ/m <sup>2</sup>	ISO 179/1eA

(1) Speed of testing: 50 mm/min

(2) Speed of testing: 1 mm/min

