

# SABIC® PP PCGR40L

#### PP RANDOM COPOLYMER

### **DESCRIPTION**

 ${\sf SABIC}^{\circledR} \ {\sf PP} \ grades \ for \ healthcare \ applications \ are \ produced \ under \ controlled \ conditions \ resulting \ in \ high \ product \ quality, \ consistency \ and \ a \ high \ level \ of \ purity.$ 

SABIC<sup>®</sup> PP PCGR40L is a highly transparent polypropylene random copolymer with good antistatic properties. This grade combines improved aesthetics of the finished articles with low temperature processability and a very good organoleptic performance. Part aesthetics are not affected by the lower temperatures, providing for a broader operating window, enabling short cycle times. SABIC<sup>®</sup> PP PCGR40L results in excellent demoulding characteristics and has a good stiffness to impact ratio.

Typical applications: SABIC<sup>®</sup> PP PCGR40L is typically used for injection moulding of housings for empty disposable 2-part syringes. A lubrication agent is added to reduce friction between moving parts. Other applications demanding a high level of transparency and friction optimization are also possible.

Compliance to regulations: SABIC  $^{\circledR}$  PP PCGR40L complies with the food contact regulations and the relevant monographs of the US Pharmacopoeia.

#### TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 230 °C and 2.16 kg	40	dg/min	ISO 1133
Density	905	kg/m³	ASTM D1505
FORMULATION			
Slip agent	$\checkmark$	-	-
Clarified	$\checkmark$	-	-
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus <sup>(1)</sup>	1150	MPa	ISO 527-2 1A
stress at yield	29	MPa	ISO 527-2 1A
strain at yield <sup>(2)</sup>	13	%	ISO 527-2 1A
Izod impact notched			
at 0 °C	2.0	kJ/m²	ISO 180/1A
at 23 °C	4.0	kJ/m²	ISO 180/1A
Charpy Impact Strength Notched			
at 0 °C	2.0	kJ/m²	ISO 179/1eA
at 23 °C	4.5	kJ/m²	ISO 179/1eA

<sup>(1)</sup> Speed of testing: 1 mm/min

<sup>(2)</sup> Speed of testing: 50 mm/min



## **DISCLAIMER**

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