

Pakro Kimya Dış Ticaret A.Ş.

İstoç Ticaret Merkezi Aktem Plaza Kat:5 Daire:33 Bağcılar/İstanbul



Revision 20220721

# SABIC® PP PCGR40L

#### 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 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® PP PCGR40L results in excellent demoulding characteristics and has a good stiffness to impact ratio.

Typical applications: SABIC® 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® PP PCGR40L complies with the food contact regulations and the relevant monographs of the US Pharmacopoeia.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 230 °C and 2.16 kg	40	dg/min	ISO 1133
Density	905	kg/m <sup>3</sup>	ASTM D1505
FORMULATION			
Slip agent	$\checkmark$	-	-
Clarified	V	-	-
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

(1) Speed of testing: 1 mm/min

(2) Speed of testing: 50 mm/min

#### STORAGE AND HANDLING

Avoid prolonged storage in open sunlight, high temperatures (<50 °C) and /or high humidity as this could well speed up alteration and consequently loss of quality of the material and /or its packaging. Keep material completely dry for good processing.



## DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.



CHEMISTRY THAT MATTERS"