

SABIC® PP PCGR40L

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 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.

General Information			
Additive	Clarifier slip agent		
Features	High purity smoothness Antistatic property Fast molding cycle Good sensory characteristics Definition, high Compliance of Food Exposure Good demoulding performance Random copolymer		
Uses	Shell Medical/nursing supplies		
Agency Ratings	USP Not Rated		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	40	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1150	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/1A/50


Tensile Strain (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	ISO 179/1eA
23°C	4.5	kJ/m ²	ISO 179/1eA
Notched Izod Impact			ISO 180/1A
0°C	2.0	kJ/m ²	ISO 180/1A
23°C	4.0	kJ/m ²	ISO 180/1A

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
 Phone: +86 13424755533
 Email: sales@su-jiao.com
 No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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