

Technical Data Sheet

GEHR PP-C®



Physical Properties

General	Test Method	Unit	Value
Polypropylene Classification	ASTM D4101	-	High Impact Copolymer Group 3, Class 4, Grade 1
Material Call-Out Designation	ASTM D4101	-	PP0341
Specific gravity	ASTM D792	g/cm ³	.905
Water Absorption (saturation)	ASTM D570	%	-
Humidity Absorption (saturation)	ASTM D570	%	-
Nominal Melt Flow (230°C/2.1kg)	ASTM D1238	g/10min	0.7
Mechanical			
Tensile strength	ASTM D638	psi	4,200
% Elongation at Yield	ASTM D638	%	12.5
Izod Impact, Notched @73°F	ASTM D256	ft-lb/in	No Break
Instrumented Impact Strength at -29°C	ASTM D3763	Ft-lbs	22
Hardness, Rockwell	ASTM D785	R	78
Flexural strength	ASTM D790	psi	-
Flexural Modulus	ASTM D790	psi	-
Thermal Properties			
Heat Deflection Temperature; HDT/A @264 psi	ASTM D648	°F	-
Coefficient of linear thermal expansion	ASTM D696	in/in/°F x 10 ⁻⁵	-
Melting Temperature	ASTM D3418	°F	-
Maximum permissible service temp.	UL 746B	°F	-
Lower permissible service temp.	UL 746B	°F	-
Electrical			
Dielectric Strength	ASTM D149	Volts/mil	-
Dielectric Constant	ASTM D150	60Hz @30°F	-
Volume Resistivity	ASTM D257	Ohm/cm@73°F	-
Fire Performance			
Flammability	UL 94	-	HB
Regulatory Compliance			
Food Contact - repeated contact with food	FDA	-	CFR Title 21
Pharmaceutical and Medical Device*	USP*	-	Class VI*
Other ¹⁾			
UV Stabilization	-	-	no
Animal Derived Substances - Additives derived from animal sources are not intentionally added in this product.			

The physical properties data contained herein are typical values and reflect the current state of our knowledge. The values are obtained on test specimens of the material under specific test conditions and represent average values of a large number of tests. This data is to be used as a guideline only and should not be used for specification purposes for finished parts machined from GEHR stock shapes. Physical properties of finished parts can be influenced by material, processing, machining techniques, environmental factors, and part geometry. It is the end user's responsibility to determine the suitability for the intended application prior to use. GEHR plastics, Inc. (including its affiliates) does not warrant, promise, or guarantee the suitability of this product for use in specific applications and disclaims any implied warranties, including but not limited to any warranties of merchantability or fitness for a particular purpose.

* GEHR PP-C rod extruded from Braskem PP-C natural material meets the requirements of USP Class VI. Test report available. This statement does not imply approvals for any specific medical device application. The end user is responsible for biocompatibility evaluations applicable for the intended application. GEHR Plastics, Inc. (including its affiliates) does not warrant, promise, or guarantee the suitability of this product for use in any medical application and disclaims any implied warranties, including but not limited to any warranties of merchantability or fitness for a particular purpose.

¹⁾ Contact GEHR Technical Services for additional regulatory compliance and other technical information if necessary