

ColorRx® PC-2100GSRX

Americhem - Polycarbonate

General Information
Product Description

PC-2100GSRX is a high flow injection molding grade of gamma stabilized polycarbonate with good clarity and high impact resistance. It is suitable for healthcare applications and sterilizable by EtO, steam at 121°C, and gamma radiation. Demonstrates reduced color shift after multiple gamma radiation cycles as compared to non-stabilized PC.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Features	<ul style="list-style-type: none"> Autoclave Sterilizable Biocompatible E-beam Sterilizable Ethylene Oxide Sterilizable 	<ul style="list-style-type: none"> Excellent Colorability Food Contact Acceptable Heat Sterilizable Radiation (Gamma) Resistant 	<ul style="list-style-type: none"> Radiation Sterilizable Steam Sterilizable
Uses	<ul style="list-style-type: none"> Closures Engineering Parts 	<ul style="list-style-type: none"> Housings Industrial Parts 	<ul style="list-style-type: none"> Medical/Healthcare Applications Surgical Instruments
Agency Ratings	<ul style="list-style-type: none"> ISO 10993 Part V 		
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	0.15	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	9400	psi	ASTM D638
Tensile Strength ² (Break)	10500	psi	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Tensile Elongation (Break)	110	%	ASTM D638
Flexural Modulus ²	339000	psi	ASTM D790
Flexural Strength ²	14000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	15	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	70		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed, 0.250 in)	255	°F	ASTM D648

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

