

**ColorRx® FRPCT60RX**

Americhem - Polycarbonate + PBT

**General Information**
**Product Description**

FRPCT60RX is a high flow injection molding grade of PBT+PC alloy with improved impact and chemical resistance. It consists of a Brominated FR system with a flame rating of V-0/1.5mm. FRPCT60RX is suitable for healthcare applications and is suitable for sterilization using EtO and steam at 121°C.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Biocompatible • E-beam Sterilizable	• Ethylene Oxide Sterilizable • Excellent Colorability	• Radiation Sterilizable • Steam Sterilizable
Uses	• Closures • Connectors • Engineering Parts	• Housings • Industrial Parts • Medical/Healthcare Applications	• Surgical Instruments
Agency Ratings	• ISO 10993	• ISO 10993-5	
Forms	• Pellets		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.30		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	35	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.010 to 0.012	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	7200	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break)	6600	psi	ASTM D638
Tensile Elongation (Yield)	4.3	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	120	%	ASTM D638
Flexural Modulus <sup>2</sup>	366000	psi	ASTM D790
Flexural Strength <sup>2</sup>	12400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	14	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	216	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating <sup>3</sup> (0.06 in)	V-0		UL 94

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F
Nozzle Temperature	470 to 500	°F
Processing (Melt) Temp	470 to 500	°F



Mold Temperature	100 to 190 °F
Back Pressure	50.0 to 100 psi
Screw Speed	50 to 150 rpm
Vent Depth	1.0E-3 to 3.0E-3 in

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min

<sup>3</sup> Submitted to UL for approval.

