

**ColorRx® FRPC40RX**

Americhem - Polycarbonate

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

FRPC40RX is a medium viscosity injection molding grade of transparent polycarbonate with high impact resistance. It consists of a non-halogenated FR system with a flame rating of V-0/3mm. Suitable for healthcare applications.

**General**

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

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.21		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	9000	psi	ASTM D638
Tensile Strength <sup>2</sup> (Break)	8000	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	7.0	%	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	90	%	ASTM D638
Flexural Modulus <sup>2</sup>	325000	psi	ASTM D790
Flexural Strength <sup>2</sup>	13200	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	12	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)	270	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating <sup>3</sup> (0.12 in)	V-0		UL 94

**Notes**

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

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

<sup>3</sup> Internal test method in accordance with UL94 standard

