

**ColorRx® PP1-2000RX**
*Americhem - Polypropylene Homopolymer*
**General Information**
**Product Description**

PP1-2000RX is a high flow grade injection molding grade of Polypropylene (PP) homopolymer with high stiffness and good impact strength. It is suitable for healthcare applications and sterilizable by EtO and steam at 121°C.

**General**

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

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.912		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	4800	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	8.0	%	ASTM D638
Flexural Modulus <sup>2</sup>	190000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed, 0.250 in)	220	°F	ASTM D648

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	120	°F
Drying Time	2.0 to 4.0	hr
Drying Time, Maximum	6.0	hr
Suggested Shot Size	40 to 60	%
Rear Temperature	360 to 400	°F
Middle Temperature	370 to 410	°F
Front Temperature	380 to 420	°F
Nozzle Temperature	390 to 440	°F
Processing (Melt) Temp	390 to 440	°F
Mold Temperature	50 to 100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

**Notes**

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

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

