

ColorRx® PP1-1200RX
Americhem - Polypropylene Homopolymer
General Information
Product Description

PP1-1200RX is a medium flow grade injection molding grade of polypropylene (PP) homopolymer with good stiffness and impact strength. It is suitable for healthcare applications 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 ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.902		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	5270	psi	ASTM D638
Tensile Elongation ² (Yield)	8.0	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.37	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	205	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	120	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	380 to 470	°F
Middle Temperature	390 to 480	°F
Front Temperature	410 to 490	°F
Nozzle Temperature	420 to 510	°F
Processing (Melt) Temp	390 to 500	°F
Mold Temperature	80 to 120	°F

Notes

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

² 2.0 in/min

