

ColorRx® NY3-1000RX

Americhem - Polyamide 6I/6T Copolymer

General Information

Product Description

NY3-1000RX is an injection molding grade of amorphous partially aromatic nylon 6I/6T with high transparency. It is suitable for healthcare applications.

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 • Engineering Parts	• Housings • Medical/Healthcare Applications	• Surgical Instruments
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18		ASTM D792
Molding Shrinkage - Flow	3.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	2.0	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	14500	psi	ASTM D638
Tensile Elongation ² (Yield)	5.0	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	221	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	4.0 to 12	hr
Suggested Shot Size	30 to 60	%
Rear Temperature	450 to 500	°F
Middle Temperature	460 to 500	°F
Front Temperature	470 to 520	°F
Nozzle Temperature	450 to 500	°F
Processing (Melt) Temp	450 to 540	°F
Mold Temperature	100 to 150	°F
Back Pressure	50.0 to 100	psi
Screw Speed	60 to 120	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

Notes

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

² 2.0 in/min

