

ColorRx® NY5-1000RX

Americhem - Polyamide 12

General Information

Product Description

NY5-1000RX is an injection molding grade of amorphous nylon 12 with high transparency and good chemical resistance. It is suitable for healthcare applications.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm ³	ISO 1183
Molding Shrinkage - Flow (0.125 in)	8.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow	7.0E-3	in/in	ASTM D955
Water Absorption (24 hr, 73°F)	3.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	8600	psi	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Flexural Modulus	230000	psi	ISO 178
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	237	°F	ISO 75-2/A

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	500	°F
Middle Temperature	500	°F
Front Temperature	482	°F
Nozzle Temperature	500	°F
Processing (Melt) Temp	518 to 536	°F
Mold Temperature	176	°F

Notes

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

