ColorRx® NY5-1000RX

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.

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

Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm³	ISO 1183
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.80	%	
Across Flow	0.70	%	
Water Absorption (24 hr, 23°C)	3.0	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	59.3	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	%	ISO 527-2
Flexural Modulus	1590	MPa	ISO 178

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
1.8 MPa, Unannealed	114	°C	

Injection	Nominal Value	Unit
Rear Temperature	260	°C
Middle Temperature	260	°C
Front Temperature	250	°C
Nozzle Temperature	260	°C
Processing (Melt) Temp	270 to 280	°C
Mold Temperature	80	°C

Notes

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

Properties provided are only typical values and Americhem assumes no liability for the customer's use of the information provided. The customer assumes all responsibility for testing determining this products suitability in the customer's specific end application.

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