



## ColorRx® NY3-1000RX

**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.

**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

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.30	%	
Across Flow	0.50	%	
Water Absorption (24 hr)	2.0	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength <sup>2</sup> (Yield)	100	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	5.0	%	ASTM D638
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed	105	°C	
INJECTION	NOMINAL VALUE	UNIT	
Drying Temperature	79	°C	
Drying Time	4.0 to 12	hr	
Suggested Shot Size	30 to 60	%	
Rear Temperature	232 to 260	°C	
Middle Temperature	238 to 260	°C	
Front Temperature	243 to 271	°C	
Nozzle Temperature	232 to 260	°C	
Processing (Melt) Temp	232 to 282	°C	
Mold Temperature	38 to 66	°C	
Back Pressure	0.345 to 0.689	MPa	



<b>INJECTION</b>	<b>NOMINAL VALUE</b>	<b>UNIT</b>
Screw Speed	60 to 120	rpm
Vent Depth	0.038 to 0.076	mm

**NOTES**

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

<sup>2</sup> 51 mm/min

