



ColorRx® NY3-1030GFRX

PRODUCT DESCRIPTION NY3-1000RX is a 30% glass fiber reinforced injection molding grade of amorphous partially aromatic nylon 6I/6T with high strength and toughness. It is suitable for healthcare applications.

MATERIAL STATUS Commercial: Active

AVAILABILITY Africa & Middle East, Asia Pacific, Europe, Latin America, North America

FILLER / REINFORCEMENT Glass Fiber, 30% Filler by Weight

FEATURES Biocompatible, E-beam Sterilizable, Ethylene Oxide Sterilizable, Excellent Colorability, Filled, Good Dimensional Stability, High Stiffness, High Strength, 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	1.31	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Water Absorption (24 hr)	1.5	%	ASTM D570

MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength ² (Yield)	117	MPa	ASTM D638
Tensile Elongation ² (Yield)	5.0	%	ASTM D638
Flexural Strength (Yield)	138	MPa	ASTM D790

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
Screw Speed	60 to 120	rpm
Vent Depth	0.038 to 0.076	mm

NOTES

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

² 51 mm/min

