

RF-NY-R RF-NY-F

Nylon-12 Semi Rigid and Flexible Grade Tubing

Physical Properties*

	Semi-Rigid Grade	Flexible Grade
Hardness, Shore A ± 5	72	63
Tensile Strength, psi	7790	7348
Elongation at Break, %	300	300
Brittle Temperature, °F	<-90	<-90
Max. Operating Temp., °F	212	212

* Values listed are typical and are meant only as a guide to aid in design. Field testing should be performed to find the actual values for your application.

Tolerances

OD (INCH)	TOLERANCE (INCH)
1/8 - 5/32	+ .001, - .003
3/16 - 5/8	+ .001, - .004
3/4	+ .001, - .005
1	+ .001, - .006

OD (MM)	TOLERANCE (MM)
4	+ .0254, - .0762
5 - 12	+ .0254, - .1000

- Compressed Air
- Instrumentation
- Grease Lines
- Fuel and Oil Transfer
- Dispensing Equipment
- Automobiles
- Refrigeration & Cooling Systems
- Appliances
- Hydraulic Lines
- Laboratories

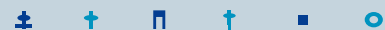
- Chemical Transfer
- Air Conditioning Systems
- Food & Beverage (with FDA Grade)
- Paint Supply
- Housewares
- Manufacturing Equipment
- Pneumatic Controls
- Well Pumps
- And More

- **Very low moisture absorption**
1.9% maximum at 73°F
- **Will not become brittle or swell when exposed to water**
- **Excellent resistance to flexural fatigue, tube vibration, and movement**
- **Lightweight, with excellent bend radii and pressure ratings**
- **Resists abrasion, crushing, and cracking**
- **Standard availability in metric sizes and colors**
- **Tightest tolerances** available (see chart)
- **100% incineration-approved** by Scientific Ecology Group (S.E.G.)
- **Semi-Rigid grade, black, is heat and light stabilized**

Aimed as a **substitute for metal**, nylon's light weight and its **resistance to corrosion and abrasion** have made it an attractive design choice.

RF-NY-R and RF-NY-F are now offered in the **nylon-12 formulation for a lower cost with virtually the same physical properties and performance as nylon-11**. Nylon's elastic memory can **withstand repeated flexing** over a long period of time without fatigue or fracture.

Further, RF-NY-R and RF-NY-F offer **high-impact resistance**, even at **subfreezing temperatures, and low moisture absorption**. While nylon brittleness can occur through cycles of water absorption and depletion, RF-NY-R and RF-NY-F **are not dependent on moisture for flexibility**. Their **life expectancy is greatly increased and brittleness is eliminated**. RF-NY-R and RF-NY-F are **resistant to solvents, alkalies, oils, greases, petroleum products, fungus, and molds**. These products have good **resistance to diluted mineral and organic acids**, but in-plant tests are suggested.



Rubberfab Mold & Gasket • Limecrest Road
P.O. Box 626 • Andover, NJ 07821
phone: 973-579-2959 fax: 973-579-7275

www.rubberfab.com

Rubberfab Mold & Gasket is a member of:



RF-NY-R RF-NY-F

Nylon-12 Semi Rigid and Flexible Grade Tubing

RF-NY-R – Semi-rigid Grade

ID (IN.)	OD (IN.)	STANDARD LENGTH (FT.)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (IN.)	LBS. PER 100 FT.	PART NO. NATURAL	PART NO. BLACK
.095	1/8	500	435	1740	3/8	.25	RF370580	RF370531
.075	1/8	500	805	3220	1/4	.35	RF370265	RF370216
.106	5/32	250	610	2440	3/8	.47	RF371210	RF371161
.086	5/32	250	925	3700	1/4	.60	RF370895	RF370846
.137	3/16	250	500	2000	1/2	.58	RF371840	RF371791
.107	3/16	250	875	3500	3/8	.84	RF371525	RF371476
.190	1/4	100, 250	455	1820	1	.95	RF372470	RF372421
.150	1/4	250	805	3220	1/2	1.39	RF372155	RF372106
.242	5/16	100	405	1620	1-1/4	1.35	RF373100	RF373051
.182	5/16	100	845	3380	7/8	2.20	RF372785	RF372736
.295	3/8	100	385	1540	1-1/2	1.92	RF373730	RF373681
.225	3/8	100	805	3220	1	3.20	RF373415	RF373366

*Use only as a guide.

RF-NY-F – Flexible Grade

ID (IN.)	OD (IN.)	STD LGTH (FT.)	WORK. PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (IN.)	LBS. PER 100 FT.	PART NO. NATURAL	PART NO. BLACK	PART NO. RED^	PART NO. YELLOW^	PART NO. GREEN^	PART NO. BLUE^
.058	1/8	500	725	2900	5/16	.44	RF360261	RF360212	RF360289	RF360310	RF360254	RF360219
.117	3/16	250	455	1820	3/8	.74	RF360576	RF360527	RF360604	RF360625	RF360569	RF360534
.170	1/4	250	375	1500	1/2	1.15	RF360891	RF360842	RF360919	RF360940	RF360884	RF360849
1/4	3/8	100	400	1600	1	2.69	RF361521	RF361472	RF361549	RF361570	RF361514	RF361479
3/8	1/2	100	285	1140	1-1/2	3.88	RF361836	RF361787	RF361864	RF361885	RF361829	RF361794
1/2	5/8	100	220	880	2-1/2	15.21	RF362151	RF362102				
19/32	3/4	100	225	900	4	7.36	RF362466	RF362417				
13/16	1	100	205	820	7	11.74	RF362781	RF362732				

*Use only as a guide.

^Red, Yellow, Green, and Blue are available in 100 ft. coils only.

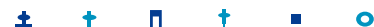
RF-NY-F – Metric Sizes, Flexible Grade

ID (MM)	OD (MM)	WORKING PSI AT 70°F	BURST PSI AT 70°F	BEND RADIUS* (MM)	LBS. PER 100 FT.	PART NO. NATURAL	PART NO. BLACK	PART NO. RED	PART NO. YELLOW	PART NO. GREEN	PART NO. BLUE
2.5	4	415	1660	8	.53	RF360267	RF360211	RF360295	RF360309	RF360253	RF360225
4.0	6	358	1432	13	1.06	RF360897	RF360841	RF360925	RF360939	RF360883	RF360855
6.0	8	255	1020	32	1.49	RF361212	RF361156	RF361240	RF361254	RF361198	RF361170
8.0	10	200	800	50	2.00	RF361527	RF361471	RF361555	RF361569	RF361513	RF361484
9.0	12	257	1028	45	3.32	RF361842	RF361786	RF361877	RF361884	RF361828	RF361800

*Use only as a guide.

All tubing sold by standard coil length only (100 ft.).

Metric fittings are available from stock.



Rubber Fab Mold & Gasket • Limecrest Road
P.O. Box 626 • Andover, NJ 07821
phone: 973-579-2959 fax: 973-579-7275

www.rubberfab.com