

MFA TUBING



Key advantages

- Exceptional surface smoothness – high yield /easy clean.
- Good mechanical properties over broad temperature range, from cryogenic to 240°C.
- Low haze value and high value of light transmittance, both in visible and UV region.
- MFA is virtually unaffected by oxygen, ozone and UV light.

Dimensions

Optinova produces metric, imperial and AWG sizes. Special dimensions can be made upon request. Random production length is standard but fixed length and cut-to-length pieces can be supplied upon request.

“50 years of experience serving over 1 000 long-term partners, **Optinova’s reputation for quality and consistency** has been an industry standard that we maintain every day”, Anders Wiklund, CEO

STANDARD TOLERANCES	
OD mm	Tol mm
>1.99	+/- 0.07
2.00-3.99	+/- 0.08
4.00-7.99	+/- 0.10
8.00-9.99	+/- 0.12
10.00-11.99	+/- 0.15
12.00-15.99	+/- 0.20
16.00-17.99	+/- 0.25
18.00-19.99	+/- 0.30
20.00-23.99	+/- 0.35
24.00-29.99	+/- 0.40
etc.	

STANDARD TOLERANCES	
Wall mm	Tol mm
>0.30	+/- 0.05
0.31-0.70	+/- 0.08
0.71-1.00	+/- 0.10
1.01-1.30	+/- 0.12
1.31-1.60	+/- 0.15
1.61-2.00	+/- 0.20
2.01-2.50	+/- 0.25
2.51-3.00	+/- 0.30
3.01-3.50	+/- 0.35
3.51-4.00	+/- 0.40
etc.	

Contact our sales offices or visit our website for more information about sample and specifications!

[optinova.com/contacts](https://www.optinova.com/contacts)

MFA	Property	Specification	Unit		
General	Continuous service temperature	Maximum	°C	260	
			°F	464	
	Chemical resistance		-	Excellent	
	Specific gravity	D792	-	2.15	
	Transparency	-	-	Very good	
	Sterialization			Eto, Steam	
Environmental	Water absorption	D570	%	< 0.03	
	Weather resistance	-	-	Excellent	
	Oxygene index	D2863	%	> 95	
	Flammability	UL 94	-	V-0	
Thermal	Melting point		°C	285	
			°F	545	
	Thermal conductivity	C177	BTU/(h.ft.°F)	1.4	
	Deflection temperature 66 psi				65
					50
	Deflection temperature 264 psi	D648		°C	
				°F	
				149	
				122	
Mechanical	Tensile strength	D1708, D638	psi	3 500	
	Elongation	D1708, D638	%	300	
	Compressive strength	D695	psi	2 200	
	Impact strength	D256 (+23°C)	Ft-Lb/in	No Break	
	Flexural Modulus	D790 (+23°C)	psi	95 000	
	Tensile Modulus	D638	psi	40 000	
	Hardness	D2240	-	D-59	
	Coefficient of friction	-	-	0.27	
Electrical	Dielectric constant	D150 (103 Hz)	-	2.1	
		D150 (106 Hz)	-	2.1	
	Dielectric dissipation factor	D150 (103 Hz)	-	0.0002	
		D150 (106 Hz)	-	0.0003	
	Dielectric strength (short term) 10 mils film	D149	Volt/mil	2 000	
	Volume resistivity	D257	Ohm • cm	> 10 ¹⁷	