



MFA TUBING



Key properties / advantages of MFA tubing

- Exceptional surface smoothness – high yield /easy clean.
- Good mechanical properties over broad temperature range, from cryogenic to 240oC.
- 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 fix length and cut pieces can be supplied upon request.

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.	

	PROPERTY	SPECIFICATION	UNIT		
General	Continuous service temperature	Maximum	°C	240	
			°F	464	
	Chemical resistance		–	Excellent	
	Specific gravity	D 792	–	2.15	
Electrical	Dielectric constant	D 150 at 10 ³ Hz	–	2.1	
		D 150 at 10 ⁶ Hz	–	2.1	
	Dielectric dissipation factor	D 150 at 10 ³ Hz	–	0.0002	
		D 150 at 10 ⁶ Hz	–	0.0003	
	Dielectric strength (short term) 10 mils film	D 149	Volt/mil	2 000	
Volume resistivity	D 257	Ohm • cm	>10 ¹⁷		
Enviromental	Water absorption	D 570	%	< 0.03	
	Weather resistance	–	–	Excellent	
	Oxygene index	D 2863	%	>95	
	Flammability	UL 94	–	V-0	
Mechanical	Tensile strength	D 1708, D 638	psi	3 500	
	Elongation	D 1708, D 638	%	300	
	Compressive strength	D 695	psi	2 200	
	Impact strength	D 256 at +23°C	Ft-Lb/in	No Break	
	Flexural Modulus	D 790 at +23°C	psi	95 000	
	Tensile Modulus	D 638	psi	40 000	
	Hardness	D 2240	–	D-59	
Thermal	Melting point		° C	285	
			° F	545	
	Thermal conductivity	C-177	BTU/hr/ft ² /°F.in	1.4	
	Deflection temperature 66 psi 264 psi	D 648		° C	65
					50
	Deflection temperature 66 psi 264 psi	D 648		° F	149
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Bending radius for MFA at 25° C

