

# COMPLIANCE SHEET

## FR-4 RODS

(To be duly filled by bidder/supplier)

SL.NO.	DESCRIPTION	SPECIFICATION/TYPE (As indented)	SPECIFICATION/TYPE (As offered by bidder/supplier)	Compliance (C/NC)
1.	Type	NEMA grade FR-4 material		
2.	Material	Thermoset composite		
3.	Chemical name	Epoxy glass laminate		
4.	Additive	Glass		
5.	Specific gravity	Any value from 1.80 to 1.85		
6.	Flammability rating	UL 94V-0		
7.	Tensile strength	Greater than and equal to 200 Mpa		
8.	Compressive strength	Greater than and equal to 190 Mpa		
9.	Hardness (M scale)	Greater than and equal to 100		
10.	Thermal Conductivity	Lesser than and equal to 0.3 w/m-k		
11.	Coefficient of linear thermal expansion	$15 \times 10^{-6}$ /degree celsius or lesser		
12.	Total mass loss (TML)	Lesser than and equal to 1.0 %		
13.	Collected volatile condensable material (CVCM)	Lesser than and equal to 0.1 %		
14.	Working temperature range	-40 degree Celsius to 100 degree Celsius		
15.	Applicable MIL standard	MIL – I – 24768/27		
16.	Glass transition temperature	Greater than and equal to 120 degree Celsius		
17.	Sizes of rods	I. DIA. 0.25" X 48" II. DIA. 0.5"X48" III. DIA. 0.625"X48" IV. DIA. 1.0"X48" V. DIA. 2.0"X48"		
18.	<b>Make/Brand as offered by bidder/supplier</b>			

**Note-** C stands for compliance and NC stands for non-compliance. If the offered specification/type (i.e. column no- 4) is complying with indented specification/type (i.e. column no- 3), then compliance (i.e. column no- 5) is filled with C otherwise NC.