

## MATERIALS & PROPERTIES

Material Rod & Bar	Ordering Code	Material Specifications
Aluminum	A	QQ-A225/3 (2011-T3) QQ-A225/8 (6061-T6) QQ-A200/9 (6063-T5)
Brass	B	ASTM-B-16
Nylon	N	LP-410A D4066
Phenolic - Paper	PH	MIL-P-79 TYPE PBE MIL-I-24768/10
Phenolic - Linen	PHL	MIL-P-79 TYPE FBE MIL-I-24768/13
Steel	S	ASTM-108
Stainless Steel	SS	ASTM-A-581 ASTM-A-582 (Non Magnetic)
Teflon	TE	ASTM-1710
Fibre	F	ASTM-D-710

## PROPERTIES OF NON METALIC MATERIAL

Property	Vulcanized Fibre	Nylon 101	Teflon	Phenolic	
				XXXP	LE
Tensile Strength (psi)	6,000-12,000	11,200-16,500	2,700-3,100	13,500	10,000-14,000
Compressive Strength (psi)	20,000-30,000	4,000-11,000	700-1,200	36,000	37,000
Heat Resistance (continuous °F)	221	250	550	250-275	225-250
Dielectric Constant (60 cycles)	4-7	10	2.1		
Dielectric Strength 1/8 thickness (v/mil)	150	300-400	400	325	225
Arc Resistance (sec)	80	140	200	10	10
Water Absorption (%) 24 hrs	15-25	1.5	.00	0.5	1.8
Rockwell Hardness	R Scale 80	107-119	R-58	M110	M113
Flammability Rating		UL 94V-2	UL HB		
Specific Gravity	1.0-1.5	1.13-1.14	2.13	1.35	1.33