



laminated tubes or rods, phenolic resin laminated tubes rods

● **Characteristics & Applications:**

1. 3721 and 3721-1: Mechanical and electrical applications; 3721 is better than 3721-1 in strength; 3721-1 is the economical product versus 3721
2. 3722, 3723, 3724 and 3725: Similar to NEMA Grade C, CE, L and LE respectively
3. 3840: Mechanical and electrical applications, good moisture resistance. If the usage is not hindered, it is allowed to have some cracks on top surface or section of rod with diameter more than 25mm.
4. 3841 and 3841F: Similar to NEMA Grade G-10 and FR-4 respectively. If the usage is not hindered, it is allowed to have some cracks on top surface or section of rod with diameter more than 25mm.

Properties		Grade									
		Phenolic Cotton Cloth Molded laminate Rod					Epoxy Glass Cloth Molded laminate Rod				
Properties	Units	3721	3721-1	3722	3723	3724	3725	3840	3841	3841F	
	g/cm ³	1.25-1.40	1.25-1.40	1.25-1.40	1	1.25-1.40	1.25-1.40	1.70-1.79	1.70-1.79	1.70-1.79	
Water absorption rate (D-24/23)	≤ %	1	1	2.0(Φ 13 mm)	1.3(Φ 13 L)	1.5(Φ 13 mm)	1.1(Φ 13 L)		0.5(Φ 13 L)	0.5(Φ 13 mm)	
Flexural strength	≥ MPa	118	88	110	90	110	83	343	241	241	
Tensile strength	≥ MPa			78					196		
Compression strength (Axial)	≥ MPa			131	138	131	138		241	241	
Insulation resistance parallel to laminations A: Under normal condition D-24/23: Immersion water	≥ Ω	1.0x10 ⁸						1.0x10 ¹⁰			
	≥ Ω							1.0x10 ⁷			
Breakdown voltage parallel to laminations (in transformer oil)	≥ KV	10(20 ± 5 °C)	10(20 ± 5 °C)		10(20 ± 5 °C)		10(20 ± 5 °C)	15(90 ± 2 °C)	15(90 ± 2 °C)	15(90 ± 2 °C)	
Flammability										FV0	
Color		Natural	Natural	Natural	Natural	Natural	Natural	Natural	Green	Green	
Reference standard		Enterprise Standard									

