

Insulation Set Data Sheet

Central Gasket:

Neoprene Faced Phenolic Resin Sheet. Rubber thickness of 0.4mm on each face of Phenolic Sheet, thickness 2.4mm, to NEMA L1-1-1983, Type XPC, with the following properties:

Dielectric Strength in oil at 23°C	500 Volt/mil (20,000 Volts/mm)
Water absorption after 24 hours immersion in water at 23°C	0.6%
Compressive strength at 23°C	168N/MM ²
Maximum continuous operating Temperature	100°C
Insulation resistance	1.2 x 10 ⁹ Megohms

Phenolic Washers:

Bakelaque Cotton Fabric Reinforced Laminate Grade B12 Phenolic Resin.

Flexural Strength	120 MPa
Impact Strength (Notched Charpy)	10.0 kJm ⁻²
Tensile Strength	80 MPa
Electric Strength perpendicular to laminations in oil @ 90°C. (Rapidly Applied)	3 MV/m
Electric Strength perpendicular to laminations in oil @ 90°C. (Step by step)	2 MV/m
Breakdown voltage parallel to laminations in oil @ 90°C.	12 kV
Insulation resistance after 24 hours water immersion.	2 GΩ
Comparative tracking index.	110 V
Thermal classification ++ continuous (Intermittent)	115°C (125°C)
Water absorption after 24 hours immersion.	85 mg
Density	1.35 g/cm ³
Specific volume	741 cm ³ /kg
Colour	Brown



Mylar Sleeves:

Dielectric Strength – ASTM D149	4000 Volts/Mil (Short Time)
Compressive Strength – ASTM D695	N/A
Water Absorption – ASTM D229	0.8%
Operating Temp F	-75 to +300
Operation Temp C	-59 to +149
Flexural Strength – ASTM D790	13000 psi
Cut Through Resistance	3500 ft-lbs

Steel Washers: Zinc Plated BS 4320 (43A)