



## TDS

### MICA COMMUTATOR PLATE EPOXY BONDED

Characteristics	Test Method	Muscovite mica	Phlogopite mica
Mica Content (%)	IEC 371-2	90 ~ 93	
Binder Content (%)	IEC 371-2	7 ~ 10	
Colour		White	Brown / Golden
Thickness (mm)	IEC 371-2	0.4 – 2.0	
Thickness Tolerance (mm)	IEC 371-2	± 0.02	
Standard Size (mm)	IEC 371-2	1200 x 1000 , 1000 x 600	
Density (kg/m <sup>3</sup> )	IEC 371-2	2.30 ~ 2.50 x 10 <sup>3</sup>	2.30 ~ 2.50 x 10 <sup>3</sup>
Bending strength (N/mm <sup>2</sup> )	ISO 178	≥300	≥300
Elastic Modulus (N/mm <sup>2</sup> )	ISO 178	>80 000	> 70 000
Thermal Stability	200°C 69Mpa	No Epoxy drop, No mica crack	No Epoxy drop, No mica crack
	240°C 69Mpa		
Dielectric strength (KV/mm)	IEC 243°C	>20	>20
Tensile strength (N/mm <sup>2</sup> )	ISO 178	> 150	> 120
Compressibility (%)	Ce-elastic %	≤2	≤2
	Cp-elastic %	≤2.5	≤2.5
Coefficient of expansion (/°C)	⊥ to the layers	60 x 10 <sup>-6</sup>	10 x 10 <sup>-6</sup>
	// to the layers	10 x 10 <sup>-6</sup>	10 x 10 <sup>-6</sup>
Heat Conductivity (W/m°C)	-	0.3	
Specific Heat	-	0.25	

**Description :** Mica plate for commutators is produced from Muscovite or Phlogopite mica paper by bonding with Epoxy resin & subsequently heat pressed & grinded. It gives high mechanical strength & accurate thickness

**Application:** commutators segments, seperators and spacers.

