

## 02-99 Shellac Segment Plate

### Composition

02-99 is built-up Shellac bonded segment plate milled to NEMA grade 3 thickness tolerances. There are different grades available depending on binder content & thermal stability.

### Application

This plate is specially suited to segment insulation in commutators of traction motors, automobiles, hand tools and other industrial motors. 02-99 can be supplied in the form of sheets or punched segments, stack gauged to ensure precise dimensional control on built-up commutators.

### Product Data

Properties	Units	Values
Thermal Classification	°C	130
Thickness range	mm	0.40 – 2.17
Thickness Tolerance	mm	Avg. $\pm 0.025$ individual $\pm 0.050$
Binder Content	%	03 - 08
Flexural Strength	N/mm <sup>2</sup>	125 min.
Dielectric Strength	kV/mm	22 min.
Heat stability as per IEC 371-2-11; 185°C—250°C / 600 kg/cm <sup>2</sup> / 30 minutes.		No exudation of binder & no mica displacement
Compressibility as per IEC 371-2-12; at 600 kg /cm <sup>2</sup> pr.	%	At R.T. - 4 max. At 160°C - 3 max.

### Different Grades

Code No	Mica Type	Binder Content, %	Heat Stability, °C
02-99-01	6 1st Ruby	6 – 8	185
02-99-02	6 1st Ruby / 6 DL	3 – 5	200
02-99-05	6 1st Ruby / 6 DL	3 – 5	250

### Available size of sheets

900 mm X 900 mm  $\pm 10$  mm / 1050 mm X 750 mm  $\pm 10$  mm  
900 mm X 450 mm  $\pm 10$  mm./ 750 mm X 525 mm  $\pm 10$  mm

08/00



**Sahney Kirkwood Ltd**  
27 Kirol Vidyavihar (West)  
Bombay 400 086 INDIA  
Fax 91 22 595 1756  
Telephone 595 1750  
insulation@sahney.com

08/00



**Sahney Kirkwood Ltd**  
27 Kiroi Vidyavihar (West)  
Bombay 400 086 INDIA  
Fax 91 22 595 1756  
Telephone 595 1750  
insulation@sahney.com