

# Material Composition for PS30-10PB1BR10K

| Sub-component | Material            | % of Total Mass | Substance Name          | CAS #                       | Substance Weight (grams) | Special Classification |
|---------------|---------------------|-----------------|-------------------------|-----------------------------|--------------------------|------------------------|
| Element       | Phenolic laminate   | 10.849%         | Cellulose               | 65996-61-4                  | 0.1930                   |                        |
|               |                     |                 | Phenolic resin          | 9003-35-4                   | 0.235                    |                        |
|               |                     |                 | Carbon black            | 1333-86-4                   | 0.040                    |                        |
|               |                     |                 | Talc                    | 14807-96-6                  | 0.002                    |                        |
|               |                     |                 | Polymer                 | 29601-89-0                  | 0.002                    |                        |
|               | Conductive plastic  | 1.242%          | Monobutyl ether         | 112-34-5                    | 0.002                    |                        |
|               |                     |                 | Silver                  | 7440-22-4                   | 0.003                    |                        |
|               |                     |                 | Phenolic resin          | 9039-25-2                   | 0.006                    |                        |
|               |                     |                 | Silver                  | 7440-22-4                   | 0.022                    |                        |
|               |                     |                 | Glass powder            | 65997-17-3                  | 2.00E-04                 |                        |
|               | Silver conductor    | 0.811%          | Graphite                | 7782-42-5                   | 0.002                    |                        |
|               |                     |                 | Molybdeum disulfide     | 1317-33-5                   | 0.002                    |                        |
|               |                     |                 | Epoxy Resin             | 25085-99-8                  | 0.016                    | Bisphenol-A resin      |
|               |                     |                 | Barium sulfate talc     | 7727-43-7                   | 0.005                    | Barium compound        |
|               |                     |                 | Titanium sulfate        | 13463-67-7                  | 0.009                    |                        |
|               | White oil           | 0.811%          | Diethylene glycol       | 112-15-2                    | 0.002                    |                        |
|               |                     |                 | monoethyl ether acetate |                             |                          |                        |
|               |                     |                 |                         |                             |                          |                        |
|               |                     |                 |                         |                             |                          |                        |
|               |                     |                 |                         |                             |                          |                        |
| Slide board   | Teflon              | 1.191%          | PTFE                    | 9002-84-0                   | 0.047                    |                        |
| Slider        | Nickel-Silver alloy | 0.659%          | Cu                      | 7440-50-8                   | 0.014                    |                        |
|               |                     |                 | Zn                      | 7440-66-6                   | 0.006                    |                        |
|               |                     |                 | Ni                      | 7440-02-0                   | 0.006                    |                        |
| Terminal      | Steel               | 0.811%          | C                       | 7440-44-0                   | 0.010                    |                        |
|               |                     |                 | Mn                      | 7439-96-5                   | 4.00E-04                 |                        |
|               |                     |                 | P                       | 7723-14-0                   | 2.00E-04                 |                        |
|               |                     |                 | Si                      | 7440-21-3                   | 1.00E-05                 |                        |
|               |                     |                 | Fe                      | 7439-89-6                   | 0.022                    |                        |
|               | Tin                 | 0.507%          | Sn                      | 7440-31-5                   | 0.020                    |                        |
|               | Slide base          | POM             | 8.137%                  | Polyoxymethylene stabilizer | 9002-81-7<br>70624-18-9  | 0.321<br>2.00E-04      |
| Shaft oil     |                     | 0.507%          | Polyisobutylene         | 9003-27-4                   | 0.012                    |                        |
|               |                     |                 | PAO                     | 68037-01-4                  | 0.007                    |                        |
|               |                     |                 | Fumed silica            | 68611-44-9                  | 0.001                    |                        |
| Case          | Steel               | 73.207%         | C                       | 7440-44-0                   | 0.534                    |                        |
|               |                     |                 | Mn                      | 7439-96-5                   | 0.020                    |                        |
|               |                     |                 | P                       | 7723-14-0                   | 0.010                    |                        |
|               |                     |                 | Si                      | 7440-21-3                   | 0.001                    |                        |
|               |                     |                 | Fe                      | 7439-89-6                   | 2.303                    |                        |
|               | Tin                 | 0.507%          | Sn                      | 7440-31-5                   | 0.020                    |                        |
|               | Spring plate        | Phosphor bronze | 1.267%                  | Cu                          | 7440-50-8                | 0.047                  |
|               |                     |                 | Sn                      | 7440-31-5                   | 0.003                    |                        |
|               |                     |                 | P                       | 7723-14-0                   | 1.00E-04                 |                        |
| Total mass    |                     |                 |                         | 3.9450                      | grams                    |                        |