

|                       |                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>    | SUMIKON <sup>®</sup> PM-9630 (Type JT Black) is Glass fiber and Inorganic filler filled resol resin (non-anmonia phenolic) molding compound with good electronic property and heat resistance. This grade is official registered UL with V-0 (t=0.16) . |
| <b>Main filler</b>    | Glass fiber , Inorganic filler                                                                                                                                                                                                                          |
| <b>Resin</b>          | Resol (non-anmonia phenolic)                                                                                                                                                                                                                            |
| <b>Color</b>          | Black                                                                                                                                                                                                                                                   |
| <b>Molding method</b> | Injection , Transfer                                                                                                                                                                                                                                    |

PHENOLIC

|            | Properties <sup>1</sup>              | Typical Value <sup>2</sup> | Unit              | Method     |            |
|------------|--------------------------------------|----------------------------|-------------------|------------|------------|
| Physical   | Specific Gravity                     | 1.77                       | -                 | JIS K 6911 |            |
|            | Water absorption                     | 0.09                       | %                 | JIS K 6911 |            |
|            | Molding shrinkage                    | 0.16                       | %                 | JIS K 6911 |            |
|            | Rockwell hardness                    | -                          | M Scale           | ASTM D-785 |            |
|            |                                      |                            |                   |            |            |
| Thermal    | Temperature of deflection under load | 300                        | ° C @ 1.82 MPa    | JIS K 6911 |            |
|            | UL-flammability                      | V-0 (t=0.16)               | - (mm)            | UL94 based |            |
|            |                                      |                            |                   |            |            |
|            |                                      |                            |                   |            |            |
|            |                                      |                            |                   |            |            |
| Mechanical | Flexural strength                    | 208                        | MPa               | JIS K 6911 |            |
|            | Flexural modulus                     | 14.6                       | GPa               | JIS K 6911 |            |
|            | Tensile strength                     | 137                        | MPa               | JIS K 6911 |            |
|            | Compressive strength                 | 208                        | MPa               | JIS K 6911 |            |
|            | Charpy impact strength notched       | 5.4                        | kJ/m <sup>2</sup> | JIS K 6911 |            |
| Electric   | Insulation resistance                | As mold                    | 4E+12             | Ohm        | JIS K 6911 |
|            |                                      | After boiling              | 1E+12             | Ohm        | JIS K 6911 |
|            | Dielectric strength (S/S)            | 9                          | MV/m              | JIS K 6911 |            |
|            | Tracking resistance (CTI)            | -                          | V                 | IEC 60112  |            |
|            | Arc resistance                       | 179                        | Sec               | JIS K 6911 |            |

RoHS : This grade is in compliance with RoHS

<sup>1</sup> Properties measured on transfer molded test specimens.

<sup>2</sup> The above values are typical values, not guaranteed.