

**PRODUCT INFORMATION****Mineral Reinforced Grade****KOPA<sup>®</sup> KN333MT40BL**

Polyamide 66 resin

Mineral reinforced, Black grade

| Property                                   | Test Method | Units                       | Value          |
|--------------------------------------------|-------------|-----------------------------|----------------|
| <b>Physical</b>                            |             |                             |                |
| Specific Gravity                           | ASTM D792   | -                           | 1.46           |
| Shrinkage                                  | ASTM D955   | %                           | 0.3~0.6        |
| Water Absorption 23 °C, Equilibrium 60%RH  | ASTM D570   | %                           | 0.3            |
| <b>Thermal</b>                             |             |                             |                |
| Melting Point                              | ASTM D3418  | °C                          | 255            |
| Heat Deflection Temperature under Load     | ASTM D648   |                             |                |
| HDT/A 0.45 MPa ( 4.6 kg/cm <sup>2</sup> )  |             | °C                          | 230            |
| HDT/A 1.82 MPa ( 18.6 kg/cm <sup>2</sup> ) |             | °C                          | 210            |
| Coeff. Of Linear Thermal Expansion         | ASTM D696   | × 10 <sup>-4</sup> cm/cm·°C | 0.7            |
| Flammability                               | UL 94       |                             | HB             |
| <b>Mechanical</b>                          |             |                             |                |
| Tensile Strength 23 °C                     | ASTM D638   | MPa (kg/cm <sup>2</sup> )   | 94 (960)       |
| Tensile Elongation 23 °C                   | ASTM D638   | %                           | 12             |
| Flexural Strength 23 °C                    | ASTM D790   | MPa (kg/cm <sup>2</sup> )   | 127 (1,300)    |
| Flexural Modulus 23 °C                     | ASTM D790   | MPa (kg/cm <sup>2</sup> )   | 2,820 (39,000) |
| Notched Izod Impact Strength 23 °C         | ASTM D256   | J/m (kg·cm/cm)              | 49 (5)         |
| Rockwell Hardness R scale                  | ASTM D785   | g/cc                        | 125            |
| <b>Electrical</b>                          |             |                             |                |
| Arc Resistance                             | ASTM D495   | sec                         | 133            |
| Dielectric Constant                        | ASTM D150   | 10 <sup>6</sup> Hz          | 3.4            |
| Dielectric Strength                        | ASTM D149   | KV/mm                       | 20             |

**KOLON PLASTICS, Inc.**