

**PRODUCT INFORMATION**

Mineral Reinforced Grade

**KOPA<sup>®</sup> KN133MC20BL**

Polyamide 6 Compound resin,

HYBRID, high thermal resistant, dimensionally stable

| Property                                   | Test Method | Units                       | Value       |
|--------------------------------------------|-------------|-----------------------------|-------------|
| <b>Physical</b>                            |             |                             |             |
| Specific Gravity                           | ASTM D792   | -                           | 1.29        |
| Shrinkage                                  | ASTM D955   | %                           | 1.0-1.3     |
| Water Absorption 23 °C, Equilibrium 60%RH  | ASTM D570   | %                           | 0.6         |
| <b>Thermal</b>                             |             |                             |             |
| Melting Point                              | ASTM D3418  | °C                          | 220         |
| Heat Deflection Temperature under Load     | ASTM D648   |                             |             |
| HDT/A 0.45 MPa ( 4.6 kg/cm <sup>2</sup> )  |             | °C                          | 190         |
| HDT/A 1.82 MPa ( 18.6 kg/cm <sup>2</sup> ) |             | °C                          | 170         |
| Coeff. Of Linear Thermal Expansion         | ASTM D696   | × 10 <sup>-4</sup> cm/cm·°C | 0.4         |
| Flammability                               | UL 94       |                             | HB          |
| <b>Mechanical</b>                          |             |                             |             |
| Tensile Strength 23 °C                     | ASTM D638   | MPa (kg/cm <sup>2</sup> )   | 79(800)     |
| Tensile Elongation 23 °C                   | ASTM D638   | %                           | 10          |
| Flexural Strength 23 °C                    | ASTM D790   | MPa (kg/cm <sup>2</sup> )   | 132(1350)   |
| Flexural Modulus 23 °C                     | ASTM D790   | MPa (kg/cm <sup>2</sup> )   | 3776(38500) |
| Notched Izod Impact Strength 23 °C         | ASTM D256   | J/m (kg cm/cm)              | 34(3.5)     |
| Rockwell Hardness R scale                  | ASTM D785   | g/cc                        | 120         |
| <b>Electrical</b>                          |             |                             |             |
| Arc Resistance                             | ASTM D495   | sec                         | 130         |
| Dielectric Constant                        | ASTM D150   | 10 <sup>6</sup> Hz          | 3.6         |
| Dielectric Strength                        | ASTM D149   | KV/mm                       | 21          |

**KOLON PLASTICS, Inc.**