

**PRODUCT INFORMATION**

Standard Grade

**KOPA<sup>®</sup> KN111BL**

Polyamide 6 Compound resin, Black grade

| Property                                   | Test Method | Units                      | Value   |
|--------------------------------------------|-------------|----------------------------|---------|
| <b>Physical</b>                            |             |                            |         |
| Specific Gravity                           | ASTM D792   | -                          | 1.14    |
| Shrinkage                                  | ASTM D955   | %                          | 1.3~1.5 |
| Water Absorption 23℃, Equilibrium 60%RH    | ASTM D570   | %                          | 1.8     |
| <b>Thermal</b>                             |             |                            |         |
| Melting Point                              | ASTM D3418  | ℃                          | 220     |
| Heat Deflection Temperature under Load     | ASTM D648   |                            |         |
| HDT/A 0.45 MPa ( 4.6 kg/cm <sup>2</sup> )  |             | ℃                          | 180     |
| HDT/A 1.82 MPa ( 18.6 kg/cm <sup>2</sup> ) |             | ℃                          | 65      |
| Coeff. Of Linear Thermal Expansion         | ASTM D696   | × 10 <sup>-4</sup> cm/cm·℃ | 8       |
| Flammability                               | UL 94       |                            | HB      |
| <b>Mechanical</b>                          |             |                            |         |
| Tensile Strength 23℃                       | ASTM D638   | kg/cm <sup>2</sup>         | 830     |
| Tensile Elongation 23℃                     | ASTM D638   | %                          | 35      |
| Flexural Strength 23℃                      | ASTM D790   | kg/cm <sup>2</sup>         | 1,250   |
| Flexural Modulus 23℃                       | ASTM D790   | kg/cm <sup>2</sup>         | 28,000  |
| Notched Izod Impact Strength 23℃           | ASTM D256   | kg cm/cm                   | 7.5     |
| Rockwell Hardness R scale                  | ASTM D785   | -                          | 120     |
| <b>Electrical</b>                          |             |                            |         |
| Arc Resistance                             | ASTM D495   | sec                        | 120     |
| Dielectric Constant                        | ASTM D150   | 10 <sup>6</sup> Hz         | 3.4     |
| Dielectric Strength                        | ASTM D149   | KV/mm                      | 20      |



KOLON PLASTICS, Inc.

