

**PRODUCT INFORMATION**

Glass Fiber Reinforced Grade

**KOPA<sup>®</sup> KN133G55BL**

Polyamide 6 Compound resin,  
High strength, dimensional stability

| Property                                   | Test Method | Units                      | Value         |
|--------------------------------------------|-------------|----------------------------|---------------|
| <b>Physical</b>                            |             |                            |               |
| Specific Gravity                           | ASTM D792   | -                          | 1.59          |
| Shrinkage                                  | ASTM D955   | %                          | 0.4-0.5       |
| Water Absorption 23℃, Equilibrium 60%RH    | ASTM D570   | %                          | 0.3           |
| <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> )  |             | ℃                          | 213           |
| HDT/A 1.82 MPa ( 18.6 kg/cm <sup>2</sup> ) |             | ℃                          | 210           |
| Coeff. Of Linear Thermal Expansion         | ASTM D696   | × 10 <sup>-4</sup> cm/cm·℃ | 0.3           |
| Flammability                               | UL 94       |                            | HB            |
| <b>Mechanical</b>                          |             |                            |               |
| Tensile Strength 23℃                       | ASTM D638   | MPa (kg/cm <sup>2</sup> )  | 221(2250)     |
| Tensile Elongation 23℃                     | ASTM D638   | %                          | 7.5           |
| Flexural Strength 23℃                      | ASTM D790   | MPa (kg/cm <sup>2</sup> )  | 363(3700)     |
| Flexural Modulus 23℃                       | ASTM D790   | MPa (kg/cm <sup>2</sup> )  | 14906(152000) |
| Notched Izod Impact Strength 23℃           | ASTM D256   | J/m (kg·cm/cm)             | 186(19)       |
| 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             |
| Dielectric Strength                        | ASTM D149   | KV/mm                      | 21            |

**KOLON PLASTICS, Inc.**