

**PRODUCT INFORMATION**

Impact Resistant Grade

**KOPA<sup>®</sup> KN173HI3R**

Polyamide 6 Compound resin,  
High viscosity, extrudable

| Property                                   | Test Method | Units                       | Value       |
|--------------------------------------------|-------------|-----------------------------|-------------|
| <b>Physical</b>                            |             |                             |             |
| Specific Gravity                           | ASTM D792   | -                           | 1.09        |
| Shrinkage                                  | ASTM D955   | %                           | 1.3-1.6     |
| Water Absorption 23 °C, Equilibrium 60%RH  | ASTM D570   | %                           | 1.1         |
| <b>Thermal</b>                             |             |                             |             |
| Melting Point                              | ASTM D3418  | °C                          | 215         |
| Heat Deflection Temperature under Load     | ASTM D648   |                             |             |
| HDT/A 0.45 MPa ( 4.6 kg/cm <sup>2</sup> )  |             | °C                          | 160         |
| HDT/A 1.82 MPa ( 18.6 kg/cm <sup>2</sup> ) |             | °C                          | 65          |
| Coeff. Of Linear Thermal Expansion         | ASTM D696   | × 10 <sup>-4</sup> cm/cm·°C | 1           |
| Flammability                               | UL 94       |                             | HB          |
| <b>Mechanical</b>                          |             |                             |             |
| Tensile Strength 23 °C                     | ASTM D638   | MPa (kg/cm <sup>2</sup> )   | 59(600)     |
| Tensile Elongation 23 °C                   | ASTM D638   | %                           | 250         |
| Flexural Strength 23 °C                    | ASTM D790   | MPa (kg/cm <sup>2</sup> )   | 88(900)     |
| Flexural Modulus 23 °C                     | ASTM D790   | MPa (kg/cm <sup>2</sup> )   | 2059(21000) |
| Notched Izod Impact Strength 23 °C         | ASTM D256   | J/m (kg cm/cm)              | 245(25)     |
| Rockwell Hardness R scale                  | ASTM D785   | g/cc                        | 110         |
| <b>Electrical</b>                          |             |                             |             |
| Arc Resistance                             | ASTM D495   | sec                         | 125         |
| Dielectric Constant                        | ASTM D150   | 10 <sup>6</sup> Hz          | 3.2         |
| Dielectric Strength                        | ASTM D149   | KV/mm                       | 20          |

**KOLON PLASTICS, Inc.**