KOLON PLASTICS, INC.

**PRODUCT INFORMATION**

Hybrid Grade

# KOPA® KN135HB40BL

Polyamide 6 Compound resin,
HYBRID, high thermal resistant, dimensionally stable

| Property | Test Method | Units | Value |
|---|---|---|---|
| **Physical** | | | |
| Specific Gravity | ASTM D792 | - | 1.42 |
| Shrinkage | ASTM D955 | % | 0.1-0.3 |
| Water Absorption 23℃, Equilibrium 60%RH | ASTM D570 | % | 0.03 |
| **Thermal** | | | |
| Melting Point | ASTM D3418 | ℃ | 220 |
| Heat Deflection Temperature under Load | ASTM D648 | | |
| HDT/A 0.45 MPa ( 4.6 kg/cm$^2$ ) | | ℃ | 210 |
| HDT/A 1.82 MPa ( 18.6 kg/cm$^2$ ) | | ℃ | 203 |
| Coeff. Of Linear Thermal Expansion | ASTM D696 | × 10$^{-4}$cm/cm·℃ | 0.4 |
| Flammability | UL 94 | | HB |
| **Mechanical** | | | |
| Tensile Strength 23℃ | ASTM D638 | MPa (kg/cm$^2$) | 128(1300) |
| Tensile Elongation 23℃ | ASTM D638 | % | 5 |
| Flexural Strength 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 200(2050) |
| Flexural Modulus 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 7610(78000) |
| Notched Izod Impact Strength 23℃ | ASTM D256 | J/m (kg·cm/cm) | 65(7) |
| Rockwell Hardness R scale | ASTM D785 | g/cc | 120 |
| **Electrical** | | | |
| Arc Resistance | ASTM D495 | sec | 136 |
| Dielectric Constant | ASTM D150 | 10$^6$Hz | 3.5 |
| Dielectric Strength | ASTM D149 | KV/mm | 22 |

The information provided in this data sheet is based on our present state of knowledge and is estimated by KOLON PLASTICS, Inc. This information should not be used as guaranteeing specification limits. KOLON PLASTICS, Inc. make no warranty and liability in connection with any use of this information.

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