

PRODUCT INFORMATION

Standard Grade

KOPA[®] KN3311BL

Polyamide 66 resin
Standard black grade

| Property | Test Method | Units | Value |
|--|-------------|-----------------------------|----------------|
| Physical | | | |
| Specific Gravity | ASTM D792 | - | 1.14 |
| Shrinkage | ASTM D955 | % | 1.1~1.3 |
| Water Absorption 23°C, Equilibrium 60%RH | ASTM D570 | % | 1.3 |
| Thermal | | | |
| Melting Point | ASTM D3418 | °C | 255 |
| Heat Deflection Temperature under Load | ASTM D648 | | |
| HDT/A 0.45 MPa (4.6 kg/cm ²) | | °C | 235 |
| HDT/A 1.82 MPa (18.6 kg/cm ²) | | °C | 85 |
| Coeff. Of Linear Thermal Expansion | ASTM D696 | × 10 ⁻⁴ cm/cm·°C | 0.7 |
| Flammability | UL 94 | | V2 |
| Mechanical | | | |
| Tensile Strength 23°C | ASTM D638 | MPa (kg/cm ²) | 83 (850) |
| Tensile Elongation 23°C | ASTM D638 | % | 60 |
| Flexural Strength 23°C | ASTM D790 | MPa (kg/cm ²) | 127 (1,300) |
| Flexural Modulus 23°C | ASTM D790 | MPa (kg/cm ²) | 2,940 (30,000) |
| Notched Izod Impact Strength 23°C | ASTM D256 | J/m (kg cm/cm) | 69 (7) |
| Rockwell Hardness R scale | ASTM D785 | g/cc | 120 |
| Electrical | | | |
| Arc Resistance | ASTM D495 | sec | 128 |
| Dielectric Constant | ASTM D150 | 10 ⁶ Hz | 3.3 |
| Dielectric Strength | ASTM D149 | KV/mm | 20 |

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KOLON PLASTICS, Inc.

KOLON TOWER, 1-23, BYULYANG-DONG, GWACHEON-CITY GYUNG GI-DO, KOREA

More information : www.kolonplastics.com/enghome