KOLON PLASTICS, INC.

**PRODUCT INFORMATION**

General Grade

# KOPA® KN190

Polyamide 6 Compound resin,
High viscosity, wide uses

| Property | | Test Method | Units | Value |
|---|---|---|---|---|
| **Physical** | | | | |
| Specific Gravity | | ASTM D792 | - | 1.14 |
| Water Absorption | 23℃, Equilibrium 60%RH | ASTM D570 | % | 1.8 |
| **Thermal** | | | | |
| Melting Point | | ASTM D3418 | ℃ | 220 |
| Heat Deflection Temperature under Load | | ASTM D648 | | |
| HDT/A | 0.45 MPa ( 4.6 kg/cm$^2$ ) | | ℃ | 180 |
| HDT/A | 1.82 MPa ( 18.6 kg/cm$^2$ ) | | ℃ | 65 |
| Coeff. Of Linear Thermal Expansion | | ASTM D696 | × 10$^{-4}$cm/cm·℃ | 0.8 |
| Flammability | | UL 94 | | HB |
| **Mechanical** | | | | |
| Tensile Strength | 23℃ | ASTM D638 | MPa (kg/cm$^2$) | 74(760) |
| Tensile Elongation | 23℃ | ASTM D638 | % | 65 |
| Flexural Strength | 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 115(1170) |
| Flexural Modulus | 23℃ | ASTM D790 | MPa (kg/cm$^2$) | 2675(27300) |
| Notched Izod Impact Strength | 23℃ | ASTM D256 | J/m (kg·cm/cm) | 75(7.7) |
| Rockwell Hardness | R scale | ASTM D785 | g/cc | 120 |
| **Electrical** | | | | |
| Arc Resistance | | ASTM D495 | sec | 120 |
| Dielectric Constant | | ASTM D150 | 10$^6$Hz | 3.4 |
| Dielectric Strength | | ASTM D149 | KV/mm | 20 |
| MOISTURE CONTENT | 23℃ | KARL FISHER | % | Max 0.08 |
| RELATIVE VISCOSITY | 23℃ | 96% $H_2SO_4$ | - | 3.52±0.05 |
| MELT FLOW INDEX | | ASTM D1238 | 235℃*2160g | 7 |
| CHIP SIZE | 23℃ | KPL METHOD | ea/g | 145±10 |
| COLOR | 23℃ | COLOR METER | L | 70～75 |
| | | | b | -4～-1 |

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