**KOPA® KN333G30HI**

PA66-GF30 Kolon Industries

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Molding shrinkage, parallel | **0.5** | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | **1.0** | % | ISO 294-4, 2577 |
| **ASTM Data** | | | |
| Mold Shrinkage, MD | **0.005** | mm/mm | ASTM D 955 |

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Strength | **175** | MPa | ISO 527 |
| Flexural modulus, 23°C | **7400** | MPa | ISO 178 |
| Charpy notched impact strength, +23°C | **16** | kJ/m² | ISO 179/1eA |
| Rockwell hardness | **R 118** | - | ISO 2039-2 |
| **ASTM Data** | | | |
| Tensile Strength | **162** | MPa | ASTM D 638 |
| Flexural Modulus | **7644** | MPa | ASTM D 790 |
| Flexural Strength | **260** | MPa | ASTM D 790 |
| Rockwell Hardness | **R 121** | - | ASTM D 785 |
| Izod Impact notched, 1/8 in | **167** | J/m | ASTM D 256 |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melting temperature, 10°C/min | **255** | °C | ISO 11357-1/-3 |
| Temp. of deflection under load, 1.80 MPa | **245** | °C | ISO 75-1/-2 |
| **ASTM Data** | | | |
| UL 94 Flame rating | **HB** | - | UL 94 |
| Thickness tested | **0.8** | mm | - |
| Coefficient of Thermal Expansion, MD | **20** | E-6/K | ASTM D 696 |
| DTUL @ 66 psi | **250** | °C | ASTM D 648 |
| DTUL @ 264 psi | **247** | °C | ASTM D 648 |
| Melting Temperature | **255** | °C | ASTM D 3418 |

| Electrical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ASTM Data** | | | |
| Dielectric Strength, Short Time | **21** | kV/mm | ASTM D 149 |
| Dielectric Constant, 1 MHz | **3.6** | - | ASTM D 150 |
| Arc Resistance | **135** | s | ASTM D 495 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| Density | **1340** | kg/m³ | ISO 1183 |
| Density | **1340** | kg/m³ | ASTM D 792 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|---|---|---|
| Pre-drying - Temperature | **80 - 100** | °C | - |
| Pre-drying - Time | **4 - 5** | h | - |
| Processing humidity | **≤0.05** | % | - |
| Mold temperature | **60 - 80** | °C | - |
| Zone 1 | **260** | °C | - |
| Zone 2 | **280** | °C | - |
| Zone 3 | **280** | °C | - |
| Nozzle temperature | **285** | °C | - |

**Characteristics**

**Processing**

Injection Molding

**Chemical Resistance**

Oil Resistance

**Special Characteristics**
High impact or impact modified, Heat stabilized or stable to heat

**Regional Availability**
North America, Asia Pacific